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Department of Computer Science and Business Systems

Circular

EEC/CSBS/VAC/2022-23/01

Date: 07-10-2022

This is to inform that, Excel Engineering College, Department of Computer Science and Business Systems planned to organize the Value Added Course on "JAVA PROGRAMMING" LANGUAGE" for II Year students of CSBS from 15-10-2022 to 20-10-2022 at 10.00 am to 04.30 pm in A1 BLOCK 302. Hence all the student are requested to attend the courses and use the opportunity for gaining the knowledge

<u>Resource Person:</u> Mrs. S.L.Swarna, Assistant Professor/CSE Excel Engineering College, Komarapalayam.







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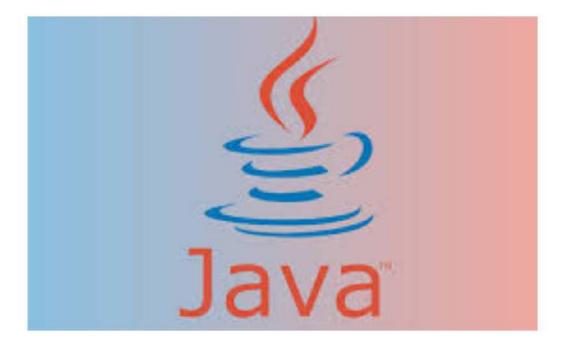
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Department of Computer Science & Business Systems

Value Added Course on

Java Programming Language

Date:- 15.10.2022 to 20.10.2022



Mrs.V.Ramya AP/CSE Coordinator Dr.P.C.Senthil Mahesh HOD/CSE



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Department of Computer Science and Business Systems

Value added course on "Java Programming Language" <u>Course Content</u>

Course Objectives:

- To introduce the object-oriented programming concepts.
- To understand object-oriented programming concepts, and apply them in solving problems.
- To introduce the principles of inheritance and polymorphism; and demonstrate how they
 relate to the design of abstract classes
- · To introduce the implementation of packages and interfaces
- To introduce the concepts of exception handling and multithreading.

S.No	Topics
1	Introduction
	Why Java
	Paradigms
	• Diff B/W Java & Other (C,C++)
	Java History
	Java Features
	Java programming format
	Java Statements
	Java Data Types
2	OOPS (Object Oriented Programming & Systems)
	Introduction
	• Object
	Constructors
	This Key Word
	• Inheritance
1 Bz (1)	Super Key Word
	Polymorphism (Over Loading & Over Riding)
	Abstraction
	• Interface
	Encapsulation
	Introduction to all predefined packages

	User Defined Packages
	Access Specifiers
1.0	
3	STRING Manipulation
	• String
-	String Buffer
4	Array
	What is Array
	 Single Dimensional Array
	Multi Dimensional Array
-	Sorting of Arrays
5	Packages
6	Exception Handling
	Introduction
	Pre Defined Exceptions
- See 1	Try-Catch-Finally
1 - 1 - 0	Throws, throw
7	User Defined Exception examples I/O Streams
· ·	Introduction
	Byte-oriented streams
	Character – oriented streams
	• File
8	Multithreading
	Introduction
	Thread Creations
	Thread Life Cycle
	Life Cycle Methods
	Synchronization
	 Wait() notify() notify all() methods
9	Wrapper Classes
	Introduction
	 Byte, Short, Integer, Long, Float, Double, Character
	Boolean classes

Course Outcomes:

- Able to solve real world problems using OOP techniques.
- · Able to understand the use of abstract classes.
- · Able to solve problems using java collection framework and I/O classes.
- · Able to develop multithreaded applications with synchronization.
- · Able to develop applets for web applications.



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Department of Computer Science and Business Systems

Value Added Course – Participants List

S.No	Roll No	Register No	Name of the Students	Signature
1	21CB001	730921202001	AAKASH PURI	Aluit
2	21CB003	730921202002	ABDUL SALAM	6 Balind
3	21CB007	730921202004	BUDDALA DINESH REDDY	Salon
4	21CB008	730921202005	CHINTHAKUNTA.RAJESH	PineshDer
. 5	21CB009	730921202006	DEVA DHARSHINI. D	
6	21CB011	730921202008	KARAN KHOKHAR	D. Devadhartim
7	21CB012	730921202009	KARTIK KUMAR	
8	21CB013	730921202010	KHWAIRAKPAM DIANA CHANU	The Draw Chance
9	. 21CB014	730921202011	MANGAPATNAM NASIR	
10	21CB015	730921202023	MD AMMANULLAH	DA Abriv
11	21CB018	730921202012	MD KAIF	Atut
12	21CB020	730921202013	MOHAMMAD ALTAF	Frank
13	21CB021	730921202014	MOHAMMAD AVASE	ent.
14	21CB023	730921202015	PATHAN NAGOOR BASHA	al sole
15	21CB024	730921202016	RAJESH.R	Kegh
16 .	21CB026	730921202017		& Roger
17	21CB027	730921202018	RITIK KUMAR SINGH	Ritile K for
18	21CB031	730921202020	SAKTHI ADHITHYAN.S	Adable
19	21CB032	730921202021	SHAIK. SAHIL KISHWAR VIBIN.V	Willeh And
20	21CB033	730921202022		KYY
21	22LCB034	730921202301	VIKASH KUMAR SINGH ARUN.P.R	weaso



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Department Of Computer Science and Business Systems

Program Name: Java Programming Language

Date: 15.10.2022 - 20.10.2022

5	10-11 N	P. 1	Attendance Sh					1
No	Roll No	Register No	Name	15.10.22	17.10.22	18.10.22	19.10.22	20.10.2
1	21CB001	730921202001	AAKASH PURI	1	1	1	1	1
2	21CB003	730921202002	ABDUL SALAM	1	1	1	1	1
3	21CB007	730921202004	BUDDALA DINESH REDDY	1	1	1	1	1
4	21CB008	730921202005	CHINTHAKUNTA.RAJESH	1	AB	1	1	1
5	21CB009	730921202006	DEVA DHARSHINI. D	1	1	1	1	1
6	21CB011	730921202008	KARAN KHOKHAR	1	1	AB	1	1
7	21CB012	730921202009	KARTIK KUMAR	1	1	1	1	1
8	21CB013	730921202010	KHWAIRAKPAM DIANA	/	1	1	1	1
9	21CB014	730921202011	MANGAPATNAM NASIR	1	1	1	1	1
10	21CB015	730921202023	MD AMMANULLAH	1	1	1	AB	1
11	21CB018	730921202012	MD KAIF	1	1	1	1	1
12	21CB020	730921202013	MOHAMMAD ALTAF	1	1	1	1	1
13	21CB021	730921202014	MOHAMMAD AVASE	AB	1	1	1	AB
14	21CB023	730921202015	PATHAN NAGOOR BASHA	1	1	1	1	1
15	21CB024	730921202016	RAJESH.R	1	1	1	1	1
16	21CB026	730921202017	RITIK KUMAR SINGH	AB	1	1	AB	1

17	21CB027	730921202018	SAKTHI ADHITHYAN.S	1	1	1	1	1
18	21CB031	730921202020	SHAIK. SAHIL KISHWAR	AB	1	1	1	1
19	21CB032	730921202021	VIBIN.V	1	1	1	/	/
20	21CB033	730921202022	VIKASH KUMAR SINGH	1	1	1	1	AB
21	22LCB034	730921202301	ARUN.P.R	1	AB	1	/	1

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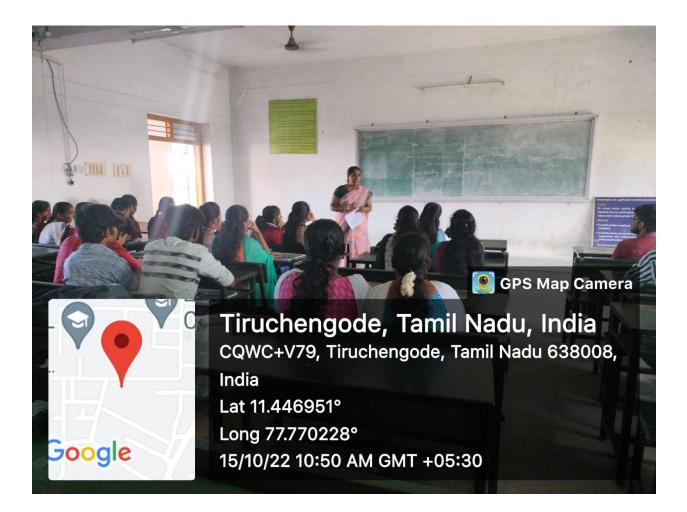


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Department of Computer Science and Business Systems

Program Name: JAVA PROGRAMMING LANGUAGE Date: 15-10-2022 to 20-10-2022.





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Department of Computer Science and Business Systems Final Assessment Mark Statement

Program name: Java Programming Language

Date: 15-10-2022 to 20-10-2022

S.No	Roll No	Register No	Name of the Students	Marks
1	21CB001	730921202001	AAKASH PURI	21
2	21CB003	730921202002	ABDUL SALAM	19
3	21CB007	730921202004	BUDDALA DINESH REDDY	18
4	21CB008	730921202005	CHINTHAKUNTA.RAJESH	17
5	21CB009	730921202006	DEVA DHARSHINI. D	20
6	21CB011	730921202008	KARAN KHOKHAR	12
7	21CB012	730921202009	KARTIK KUMAR	17
8	21CB013	730921202010	KHWAIRAKPAM DIANA	19
9	21CB014	730921202011	MANGAPATNAM NASIR	20
10	21CB015	730921202023	MD AMMANULLAH	18
11	21CB018	730921202012	MD KAIF	16
12	21CB020	730921202013	MOHAMMAD ALTAF	19
13	21CB021	730921202014	MOHAMMAD AVASE	22
14	21CB023	730921202015	PATHAN NAGOOR BASHA	21
15	21CB024	730921202016	RAJESH.R	18
16	21CB026	730921202017	RITIK KUMAR SINGH	22
17	21CB027	730921202018	SAKTHI ADHITHYAN.S	19
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19	21CB032	730921202021	VIBIN.V	19
20	21CB033	730921202022	VIKASH KUMAR SINGH	20
21	22LCB034	730921202301	ARUN.P.R	18



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DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

Value Added Course on " Java Programming Language"

Name: M.D. AMANULLAH

Roll No: 21 CB015

Year/Sem/Sec: 11 111

25

1. Number of primitive data types in Java are?

a) 6 b) 7

d) 9

2. What is the size of float and double in java?
a) 32 and 64
b) 32 and 32
c) 64 and 64
d) 64 and 32

3. Automatic type conversion is possible in which of the possible cases?
a) Byte to int
b) Int to long
c) Long to int
d) Short to int

4. Find the output of the following code. int Integer = 24; char String = '1'; System.out.print(Integer); System.out.print(String);

a) Compile error b) Throws exception c) 1 d) 24 1

5. Find the output of the following program.

public class Solution{
 public static void main(String]] args){
 short x = 10;
 x = x * 5;
 }

```
System.out.print(x);
}
a) 50
b) 10
```

c) Compile error d) Exception

```
6. Find the output of the following program.
public class Solution{
    public static void main(String|] args){
        byte x = 127;
        x++;
        x++;
        x++;
    System.out.print(x);
    }
}
public static void main(String|] args){
        byte x = 127;
        x++;
        x++;
        x++;
        c) 127
        b) 127
        c) 129
```

```
d) 2
```

```
7. Select the valid statement.
a) char[] ch = new char(5)
b) char[] ch = new char[5]
c) char[] ch = new char()
d) char[] ch = new char[]
```

8)Find the output of the following program.

```
public class Solution {
    public static void main(String|] args){
int[] x = {120, 200, 016};
for(int i = 0; i<x.length; i++){
System.out.print(x|i] + " ");
    }
}
a) 120 200 016
b) 120 200 14
c) 120 200 16
d) None</pre>
```

```
X
```

- c) Length of the array
- d) Copy of first element

10) Select the valid statement to declare and initialize an array.
a) int[] A = {}
b) int[] A = {1, 2, 3}
c) int[] A = {1, 2, 3}
d) int[][] A = {1,2,3}

- a) 0
- Joy 1
 - c) 2
 - d) 3

12) Arrays in java are-

a) Object references

b) objects

C Primitive data type

d) None

13. When is the object created with new keyword?

a) At run time

b) At compile time

- c) Depends on the code
- d) None

14. Identify the corrected definition of a package.

a) A package is a collection of editing tools

b) A package is a collection of classes

A package is a collection of classes and interfaces

d) A package is a collection of interfaces

15. Identify the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class.

X

a) final

b) static

c) volatile

d) abstract

16) In which of the following is toString() method defined?

X

X

A) java.lang.Object
 b) java.lang.String
 c) java.lang.util
 d) None

17. Identify the output of the following program. String str = "abcde"; System.out.println(str.substring(1, 3));

a) abc

by bc

c) bcd

d) cd

18. Identify the output of the following program. String str = "Hellow"; System.out.println(str.indexOf('t));

a) 0 b) 1 c)true

19) To which of the following does the class string belong to.
a) java.lang
b) java.awt
c) java.applet

d) java.string

20) How many objects will be created in the following? String a = new String("Interviewbit"); String b = new String("Interviewbit"); Strinc c = "Interviewbit"; String d = "Interviewbit";

- a) 2
- br 3
- c) 4

d) None

21)Total constructor string class have? a) 3 b) 7 c) 13 d) 20

```
22) Find the output of the following code.
int ++a = 100;
System.out.println(++a);
```

- a) 101
- by Compile error as ++a is not valid identifier
- c) 100
- d) None

23) Find the output of the following code. if(1 + 1 + 1 + 1 + 1 == 5){ System.out.print("TRUE"); } else{ System.out.print("FALSE"); }

- a) TRUE
- CH-FALSE
 - c) Compile error
 - d) None

24) Identify the return type of a method that does not return any value.
a) int
b) void
c) double
d) None

25)Output of Math.floor(3.6)? a) 3 br3.0 c) 4 d) 4.0



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Department of Computer Science and Business Systems

Value Added Course on " Java Programming Language"

Name: KARTIK KUMAR Roll no : 2108012 Year/Sem: II

1. Number of primitive data types in Java are?

a) 6

b) 7

√c) 8

d) 9

2. What is the size of float and double in java?

√a) 32 and 64

b) 32 and 32

c) 64 and 64

d) 64 and 32

3. Automatic type conversion is possible in which of the possible cases?a) Byte to int

b) Int to long

c) Long to int

d) Short to int

4. Find the output of the following code. int Integer = 24; char String = 'I'; System.out.print(Integer); System.out.print(String);

a) Compile error

b) Throws exception

c) I

dy 24 1

}

5. Find the output of the following program.
public class Solution{
 public static void main(String|] args){
 short x = 10;
 x = x * 5;
System.out.print(x);
 }

a) 50 b) 10 c) Compile error d) Exception

6. Find the output of the following program.
public class Solution{
 public static void main(String[] args){
 byte x = 127;
 x++;
 x++;
 x++;
 System.out.print(x);
 }
}
a) -127
b) 127

c) 129d) 2

```
7. Select the valid statement.

a) char[] ch = new char(5)
b) char[] ch = new char[5]
c) char[] ch = new char()
d) char[] ch = new char[]
```

8)Find the output of the following program.

```
public class Solution{
    public static void main(String]] args){
int[| x = {120, 200, 016};
for(int i = 0; i<x.length; i++){
    System.out.print(x[i] + " ");
    }
}
a) 120 200 016
b) 120 200 14
c) 120 200 16
d) None</pre>
```

9) When an array is passed to a method, what does the method receive?a) The reference of the array

by A copy of the array

X

X

- c) Length of the array
- d) Copy of first element

10) Select the valid statement to declare and initialize an array.
a) int[] A = {}
b) int[] A = {1, 2, 3}
c) int[] A = {1, 2, 3}
d) int[][] A = {1,2,3}

11) Find the value of A[1] after execution of the following program. int[] A = {0,2,4,1,3}; for(int i = 0; i<a.length; i++){ a[i] = a[(a[i] + 3) % a.length];

}

- a) 0 b) 1
- c) 2
- dr 3

7

12) Arrays in java area) Object references
b) objects

c) Primitive data type

d) None

13. When is the object created with new keyword?
A) At run time
b) At compile time
c) Depends on the code

d) None

14. Identify the corrected definition of a package.

a) A package is a collection of editing tools

b) A package is a collection of classes

shA package is a collection of classes and interfaces

d) A package is a collection of interfaces

15. Identify the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class.

a) final

b) static

c) volatile

Pabstract

16) In which of the following is toString() method defined? a) java.lang.Object b) java.lang.String c) java.lang.util

d) None

17. Identify the output of the following program. String str = "abcde"; System.out.println(str.substring(1, 3));

a) abc

b) bc

c) bcd

d) cd

18. Identify the output of the following program. String str = "Hellow"; System.out.println(str.indexOf('t));

a) 0 b) 1 c)true d)-1

19) To which of the following does the class string belong to. a) java.lang

- b) java.awt
- c) java.applet
- d) java.string

20) How many objects will be created in the following? String a = new String("Interviewbit"); String b = new String("Interviewbit"); Strinc c = "Interviewbit"; String d = "Interviewbit";

- a) 2
- b) 3
- c) 4
- d) None

21)Total constructor string class have?

a)3 b) 7 c) 13 d) 20

22) Find the output of the following code. int ++a = 100; System.out.println(++a);

a) 101

b)- Compile error as ++a is not valid identifier

- c) 100
- d) None

23) Find the output of the following code.
if(1 + 1 + 1 + 1 + 1 == 5){
System.out.print("TRUE");
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else{ System.out.print("FALSE"); }

- a) TRUE
- by FALSE
 - c) Compile error
 - d) None

24) Identify the return type of a method that does not return any value.

4

a) int

b) void

s) double

d) None

25)Output of Math.floor(3.6)? a) 3 b) 3.0

c) 4

d) 4.0



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Department of Computer Science and Business Systems

Value Added Course on " Java Programming Language"

Name: RITHIK KUMAR SINGH Roll no: RICBO26

Year/Sem/Sec: 11 11

X

- 1. Number of primitive data types in Java are?
- a) 6
- b) 7
- ers
- d) 9

2. What is the size of float and double in java?

- a) 32 and 64
- b) 32 and 32
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a) Compile error b) Throws exception c) I c) 24 I

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short x = 10;

```
x = x * 5;

System.out.print(x);

}

a) 50

b) 10
```

c) Compile error

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6. Find the output of the following program.
public class Solution{
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        byte x = 127;
        x++;
        x++;
        System.out.print(x);
    }
}
a) -127
b) 127
c) 129
d) 2
```

7. Select the valid statement.
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    for(int i = 0; i<x.length; i++){
    System.out.print(x[i] + " ");
        }
    }
    a) 120 200 016
    b) 120 200 14</pre>
```

c) 120 200 16

d) None

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c) Length of the array

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10) Select the valid statement to declare and initialize an array. a) int[] A = {} b) int[] A = {1, 2, 3} c) int[] A = {1, 2, 3} d) int[][] A = {1, 2, 3}

11) Find the value of A[1] after execution of the following program. int[] A = {0,2,4,1,3}; for(int i = 0; i<a.length; i++){ a[i] = a[(a[i] + 3) % a.length]; } a) 0 b) 1 c) 2 d) 3

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20) How many objects will be created in the following? String a = new String("Interviewbit"); String b = new String("Interviewbit"); Strinc c = "Interviewbit"; String d = "Interviewbit";



- b) 3 c) 4 d) None
- 21)Total constructor string class have?
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 b) 7
 c) 13
 d) 20

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}

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- c) Compile error
- d) None

24) Identify the return type of a method that does not return any value. a) int

b) void c) double d) None

25)Output of Math.floor(3.6)? a) 3 b) 3.0 c) 4 d) 4.0



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SUMMARY REPORT

This is to inform that, Excel Engineering College, Department of Computer Science and Business Systems conducted "JAVA PROGRAMMING LANGUAGE" from 15-10-2022 to 20-10-2022, all students attended the programme and gained knowledge Java programming Language.

The Session was more interested and interactive, students asked many questions regarding the java language and get cleared their doubts. Java is a highlevel, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible.

JAVA was developed by James Gosling at Sun Microsystems_Inc in the year 1995, later acquired by Oracle Corporation. It is a simple programming language. Java makes writing, compiling, and debugging programming easy. It helps to create reusable code and modular programs.

In 1997, Sun Microsystems approached the ISO standards body and later formalized Java, but it soon withdrew from the process. At one time, Sun made most of its Java implementations available without charge, despite their proprietary software status. Sun generated revenue from Java through the selling of licenses for specialized products such as the Java Enterprise System.

On November 13, 2006, Sun released much of its Java virtual machine as free, open-source software. On May 8, 2007, Sun finished the process, making all of its JVM's core code available under open-source distribution terms.

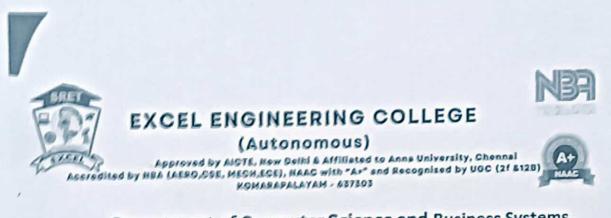


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Department of Computer Science and Business Systems

PARTICIPATION CERTIFICATE



Department of Computer Science and Business Systems

CERTIFICATE

OF COMPLETION

OORDINATOR





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Department of Computer Science and Business Systems

Program Name: JA	VA PROGRAM	MMING LAN	GUAGE		
Date: 15.10.2022					
Name: - ARUN	PR				
Rollno: 221CBO	39				
Course Content	: Excellent	Good	Satisfactory		Poor
Technical Skill	: Excellent	Good	Satisfactory		Poor
Interaction	: Excellent	Good	Satisfactory	1	Poor
Practical sessions	: Excellent	Good	Satisfactory		Poor
Communication skill	: Excellent	Good	Satisfactory		Poor
Suggestions (If Any)					
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Department of Computer Science and Business Systems

Program Name: JA Date: 15-10-2022	AVA PROGR	RAMMI	NG LANGUA	GE			
Name:- AAKACH	PURE						
Rollno: 21CB001							
Course Content Technical Skill Interaction Practical sessions Communication skill	: Excellent : Excellent : Excellent : Excellent : Excellent		Good Good Good Good	Satisfactory Satisfactory Satisfactory Satisfactory Satisfactory		Poor Poor Poor Poor Poor	
Suggestions (If Any)	:	V	seful and	l Comm	unica	live	
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