



SRM Institute of Science and Technology

(Deemed to be University U/S 3 of UGC Act, 1956)

Faculty of Science and Humanities

Tiruchirappalli, Tamil Nadu-621 105

Department of Computer Applications

PRACTICAL RECORD

NAME :

REGISTER NO :

COURSE : MCA (General)

SEMESTER/ YEAR : I / I

SUBJECT CODE : PCA25C01J

SUBJECT NAME : Object Oriented Programming Using Java

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BONAFIDE CERTIFICATE

This is to certify that the bonafide work is done by Mr/Ms. _____

Register No. _____ in **Object Oriented Programming Using Java (Subject Code: PCA25C01J)** at Computer Lab, SRMIST, Tiruchirappalli, in November 2025.

STAFF IN-CHARGE

HEAD OF THE DEPARTMENT

Submitted for the University Practical Examination held at SRMIST, Tiruchirappalli,
Department of Computer Applications on _____.

INTERNAL EXAMINER

EXTERNAL EXAMINER

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Ex. No. : 1

JAVA INPUT AND OUTPUT

Date: 16.07.2025

AIM

To create a java program to display name of the institution, year of establishment, department and your class.

ALGORITHM

Step 1: Start the Program

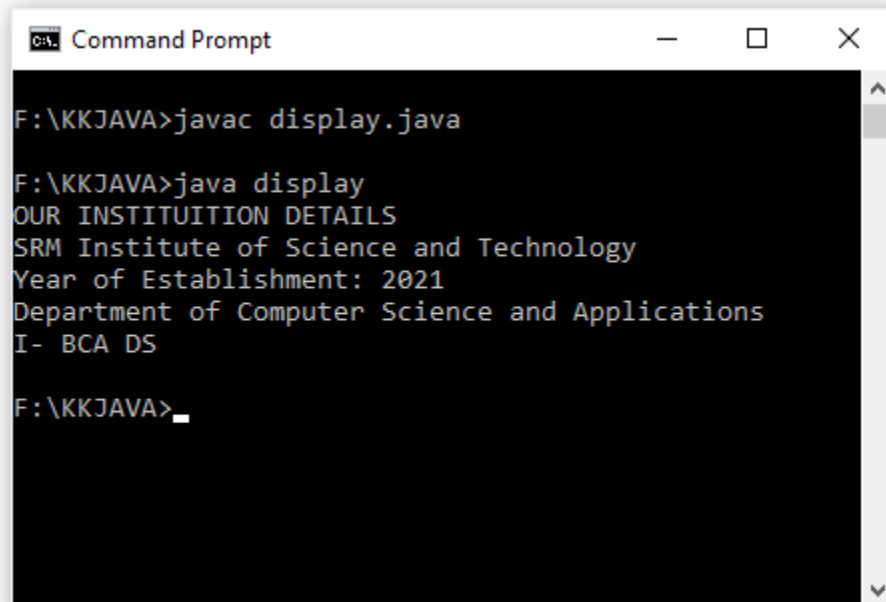
Step2: Define a class and display name of the institution, year of establishment, department and your class using Output method

Step3: Stop the program.

PROGRAM

```
import java.io.*; class
display
{
public static void main(String args[])
{
int year=2025;
System.out.println("OUR INSTITUTION DETAILS");
System.out.println("SRM Institute of Science and Technology");
System.out.println("Year of Establishment: " + year);
System.out.println("Department of Computer Applications");
System.out.println("I- MCA-GEN AI");
}
}
```

OUTPUT

A screenshot of a Windows Command Prompt window. The title bar reads "C:\> Command Prompt". The command prompt shows the following sequence of commands and output:

```
F:\KKJAVA>javac display.java  
F:\KKJAVA>java display  
OUR INSTITUTION DETAILS  
SRM Institute of Science and Technology  
Year of Establishment: 2021  
Department of Computer Science and Applications  
I- BCA DS  
F:\KKJAVA>_
```

The output text is displayed in a monospaced font on a black background. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

RESULT

The program runs successfully, displaying the institution's details as specified.

Ex. No. :2

TYPE CONVERSION

Date: 23.07.2025

AIM

To create a java program to do type conversion.

ALGORITHM

Step 1: Start the program.

Step 2: Define a class and its methods.

Step 3: Declare and initialize variables ; i=100. Step 4:

Perform type conversion like long and float

Long l=i, float f=I;

Step 5: Display the result.

Step 6: Stop the program.

PROGRAM / SOURCE CODE:

// Automatic type conversion program

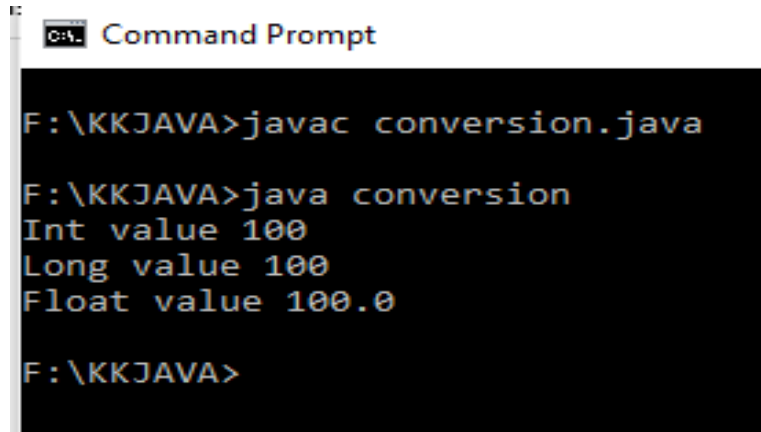
```
import java.io.*; class
conversion
{
    public static void main(String[] args)
    {
        int i = 100;

        // Integer to long type long
        l = i;

        // long to float type float
        f = l;

        // Print and display commands
        System.out.println("Int value " + i);
        System.out.println("Long value " + l);
        System.out.println("Float value " + f);
    }
}
```


OUTPUT:

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt". The command prompt shows the directory "F:\KKJAVA" and the execution of the Java compiler "javac conversion.java". After compilation, the Java program "java conversion" is run, which outputs three lines: "Int value 100", "Long value 100", and "Float value 100.0". The prompt returns to "F:\KKJAVA>".

```
F:\KKJAVA>javac conversion.java

F:\KKJAVA>java conversion
Int value 100
Long value 100
Float value 100.0

F:\KKJAVA>
```

RESULT

The values are successfully converted and displayed.

Ex. No. : 3
Date: 30.07.2025

JAVA OPERATORS

AIM

To create a Java program to implement Operators .

ALGORITHM:

Step 1: Start the Program

Step 2: Define a class and declare variables like a,b,add, sub, mul, div, moddiv;

Step 3 : assign value to the variables a=10, b=20;

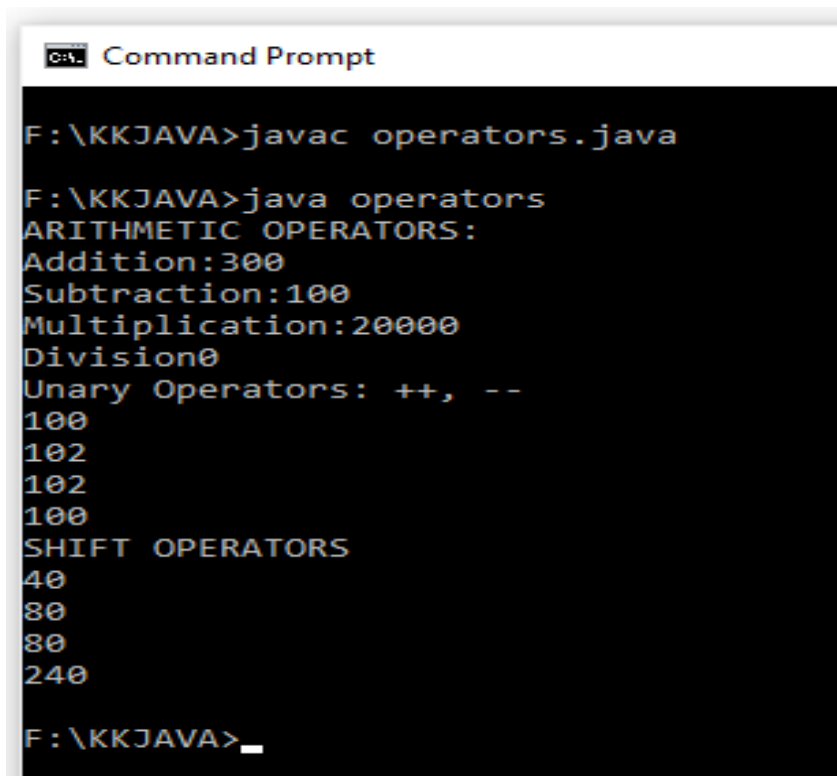
Step 4: perform arithmetic operations add=a+b, sub= b-a, mul=a*b, div=a/2, moddiv=a%3

Step 5: Display the results Step3: Stop the
program.

PROGRAM

```
import java.io.*; class
operators
{
public static void main(String args[])
{
    int a=100,b=200,add, sub, mul,div;
    add=a+b;
    sub=b-a;
    mul=a*b;
    div=a/b;
    System.out.println("ARITHMETIC OPERATORS:");
    System.out.println("Addition:" + add);
    System.out.println("Subtraction:"+ sub);
    System.out.println("Multiplication:"+ mul);
    System.out.println("Division"+ div); System.out.println("Unary
Operators: ++, --"); System.out.println(a++);
    System.out.println(++a);
    System.out.println(a--);
    System.out.println(--a);
    System.out.println("SHIFT OPERATORS");
    System.out.println(10<<2);
    System.out.println(10<<3);
    System.out.println(20<<2);
    System.out.println(15<<4);
}}
```

OUTPUT



```
Command Prompt

F:\KKJAVA>javac operators.java

F:\KKJAVA>java operators
ARITHMETIC OPERATORS:
Addition:300
Subtraction:100
Multiplication:20000
Division0
Unary Operators: ++, --
100
102
102
100
SHIFT OPERATORS
40
80
80
240

F:\KKJAVA>_
```

RESULT

The program demonstrates various operators in Java, including arithmetic, unary, and shift operators and runs successfully.

Ex. No. :4

LOOPING STATEMENTS

Date: 13.08.2025

AIM

To create a Java program to implement looping statements

ALGORITHM

Step 1: Start the Program

Step2: Define a class to display odd numbers using for-loop Step3:

Stop the program.

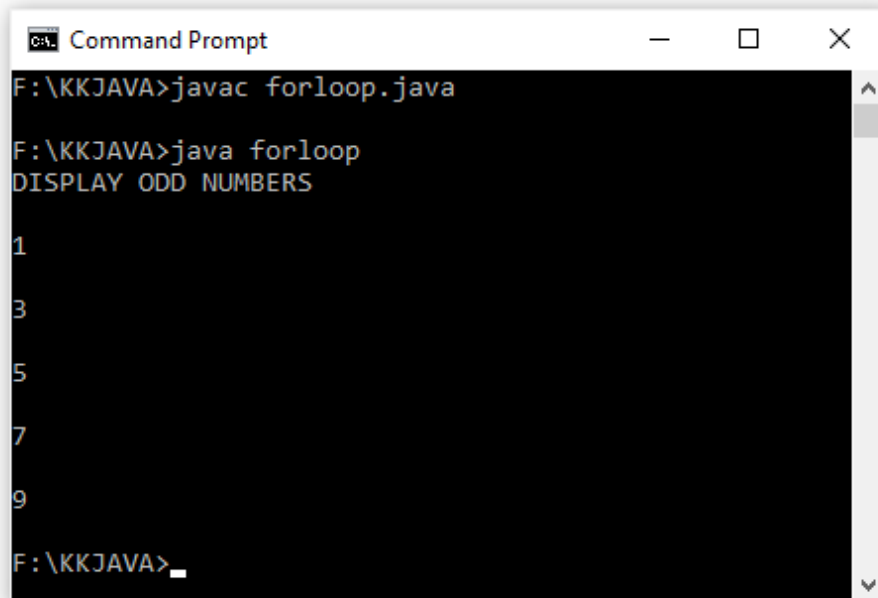
PROGRAM

```
// FOR-LOOP : DISPLAY ODD NUMBER

import java.io.*;

public class forloop
{
    public static void main(String args[ ])
    {
        System.out.println(" DISPLAY ODD NUMBERS");
        for(int i=1;i<=10;i=i+2)
        {
            System.out.println("\n"+i);
        }
    }
}
```

OUTPUT



```
Command Prompt
F:\KKJAVA>javac forloop.java
F:\KKJAVA>java forloop
DISPLAY ODD NUMBERS
1
3
5
7
9
F:\KKJAVA>
```

The screenshot shows a Windows Command Prompt window with the title "Command Prompt". The user is in the directory "F:\KKJAVA". They have compiled a Java file "forloop.java" using "javac". Then, they have run the program using "java forloop". The program's output is "DISPLAY ODD NUMBERS" followed by the odd numbers 1, 3, 5, 7, and 9 on separate lines. The prompt "F:\KKJAVA>" is visible at the bottom, indicating the program has finished execution.

RESULT

The program uses a for loop to display odd numbers from 1 to 10 and runs successfully.

Ex. No. :5

WHILE STATMENT

Date: 20.08.2025

AIM

To write a java program to implement while-looping statements

ALGORITHM

Step 1: Start the Program

Step2: Define a class to find sum of the series $1+2+3+...+10$ using while-loop. Step3:

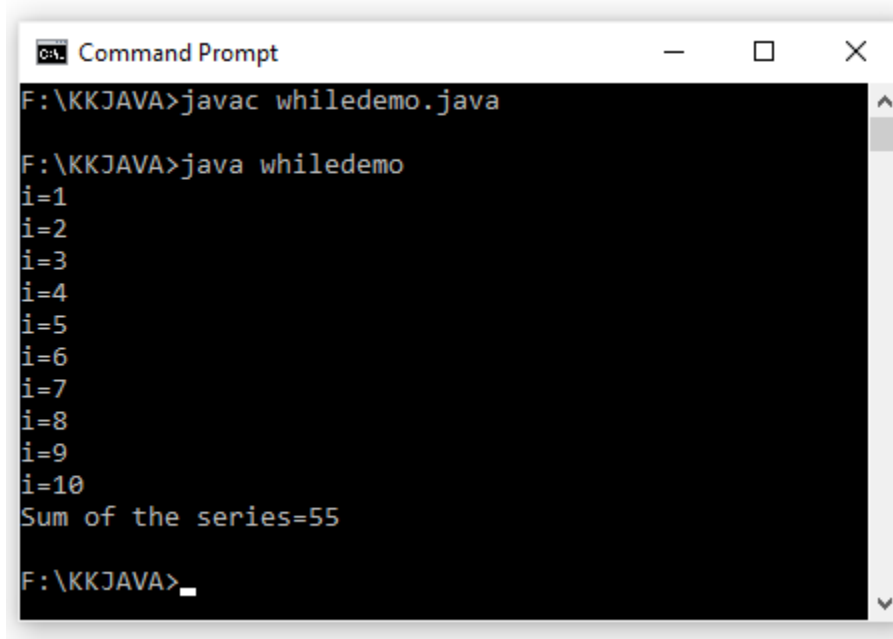
Stop the program

PROGRAM

WHILE STATEMENT: sum of the series 1+2+3+4+5+6...+10

```
import java.io.*; class
whiledemo
{
public static void main(String args[] )
{
int i=1, sum=0;
while(i<=10)
{
System.out.println("i="+i);
sum=sum+i;
i++;
}
System.out.println("Sum of the series="+sum);
}
}
```

OUTPUT



```
Command Prompt
F:\KKJAVA>javac whiledemo.java
F:\KKJAVA>java whiledemo
i=1
i=2
i=3
i=4
i=5
i=6
i=7
i=8
i=9
i=10
Sum of the series=55
F:\KKJAVA>
```

RESULT

The program uses a while loop to calculate the sum of the series $1+2+3+\dots+10$ and runs successfully.

Ex. No. :6

DO-WHILE STATMENT

Date: 20.08.2025

AIM

To write a java program to implement Do-while looping statements

ALGORITHM

Step 1: Start the Program

Step2: Define a class to Print the even numbers from 2 to 20 using D-while-loop. Step3:

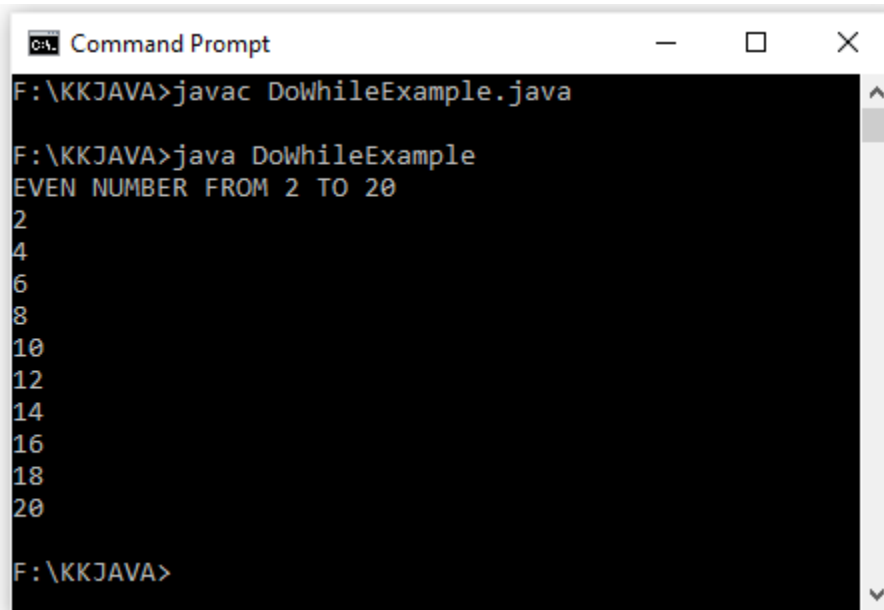
Stop the program

PROGRAM

// DoWhileExample.java to Print the even numbers from 2 to 20

```
public class DoWhileExample
{
public static void main(String args[] )
{
    int i=2;
    System.out.println("EVEN NUMBER FROM 2 TO 20");
    do
    {
        System.out.println(i); i=i+2;
    }
    while(i<=20);
}
}
```

OUTPUT



```
Command Prompt
F:\KKJAVA>javac DOWhileExample.java
F:\KKJAVA>java DOWhileExample
EVEN NUMBER FROM 2 TO 20
2
4
6
8
10
12
14
16
18
20
F:\KKJAVA>
```

RESULT

The program uses a do-while loop to print the even numbers from 2 to 20 and program runs successfully.

Ex. No. 7

Date: 27.08.2025

ARRAYS

AIM

To implement array concept using Java

ALGORITHM

Step 1: Start the program Step

2: Create a class

Step 3: Declare 2D array variables

Step 5: Declare methods with for loop to give input Step

6: Perform Matrix Addition

Step 7: Display the output Step

8: Stop the program

PROGRAM

```
//MATRIX ADDITION
import java.io.*;

class array
{

    inta[][]= new int[2][2];
    intb[][]=new int[2][2];
    intc[][]=new int[2][2]; inti,j;

    void get()
    {
        System.out.println("MATRIX-A");
        for(i=0;i<a.length;i++)
        {
            for(j=0;j<a.length;j++)
            {
                a[i][j]=i+2;
                System.out.print(a[i][j]+" ");
            }
            System.out.println(" ");
        }
        System.out.println("MATRIX-B");
        for(i=0;i<b.length;i++)
        {
            for(j=0;j<b.length;j++)
            {
                b[i][j]=j+3;
                System.out.print(b[i][j]+" ");
            }
            System.out.println(" ");
        }
    }

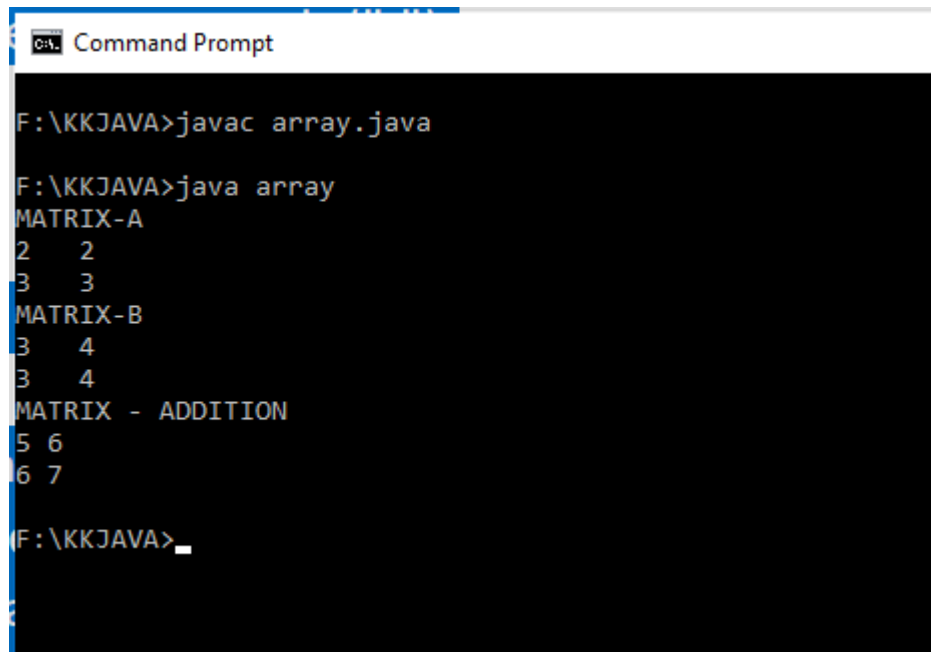
    void cal()
    {
        for(i=0;i<a.length;i++)
        for(j=0;j<b.length;j++)
        {
```

```
c[i][j]=a[i][j]+b[i][j];  
}  
}
```

```
void disp()  
{  
System.out.println("MATRIX - ADDITION"); for(i=0;i<a.length;i++)  
{  
for(j=0;j<b.length;j++)  
{  
System.out.print(c[i][j]+" ");  
}  
System.out.println(" ");  
}  
}
```

```
public static void main(String args[])  
{  
array ar=new array();  
ar.get();  
ar.cal();  
ar.disp();  
  
}  
}
```


OUTPUT



```
CA: Command Prompt

F:\KKJAVA>javac array.java

F:\KKJAVA>java array
MATRIX-A
2 2
3 3
MATRIX-B
3 4
3 4
MATRIX - ADDITION
5 6
6 7

F:\KKJAVA>
```

RESULT

The program performs matrix addition on two 2x2 matrices A and B, resulting matrix C (Matrix Addition) runs successfully.

SWITCH-CASE

Ex. No. :8

Date: 03.09.2025

AIM

To implement switch-case statement using Java.

ALGORITHM

Step 1: Start the program Step

2: Read days of a week

Step 3: Create switch with multiple statements Step 4:

Enter your choice

Step 5: Display the day as output Step

6: stop the program.

PROGRAM

```
import java.io.*; class
switchdemo
{
public static void main(String args[])
{
int day;
Scanner console=new Scanner(System.in);
System.out.println("Days of a week");
System.out.println("Enter your choice");
day=console.nextInt();
switch(day)
{
case 1:
    System.out.println("Sunday"); break;

case 2: System.out.println("Monday"); break;

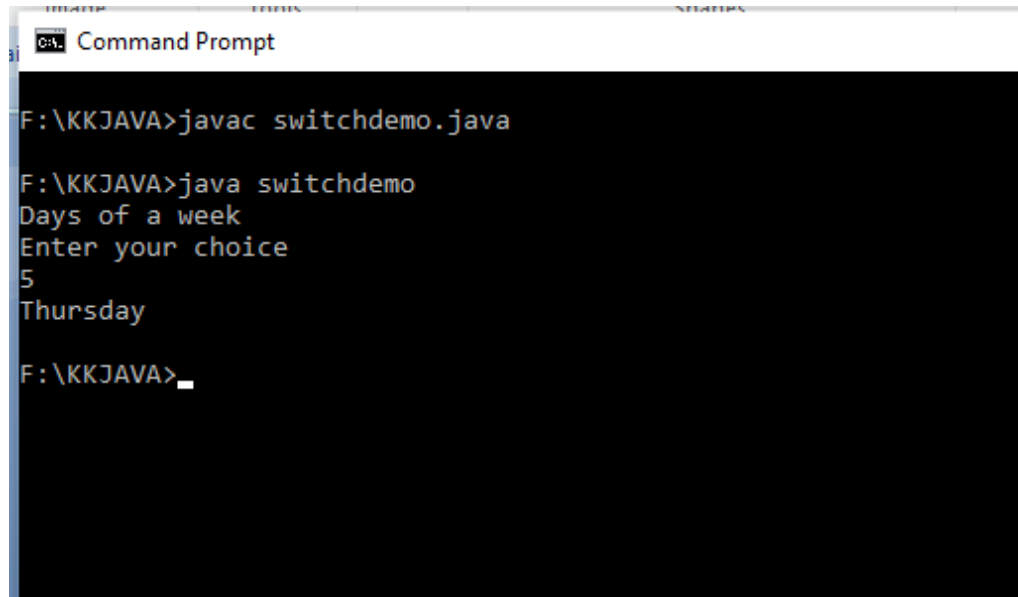
    System.out.println("Tuesday"); break;
case 3:
    System.out.println("Wednesday");
    break;
case 4:
    System.out.println("Thursday");
    break;
case 5:
    System.out.println("Friday"); break;

case 6: System.out.println("Saturday");
    break;

case 7:

}
}
}
```

OUTPUT



```
Command Prompt
F:\KKJAVA>javac switchdemo.java
F:\KKJAVA>java switchdemo
Days of a week
Enter your choice
5
Thursday
F:\KKJAVA>
```

RESULT

The program runs successfully.

COMMAND LINE ARGUMENT AND STRING FUNCTIONS

Ex. No. :9

Date: 10.09.2025

AIM

To implement command line arguments and string functions using Java.

ALGORITHM

Step 1: Start the program

Step 2: Declare variables with 3 data types int, float and string.

Step 3: Get 3 inputs from the command line during runtime as given below. java

cmdline 12 15.5 AMMU

Step 4: Convert numeric input to respective data types.

Step 5: Perform Calculation and display results of numeric input.

Step 6: Implement String functions on the given input string value
toLowerCase(), toUpperCase(), length() and concat().

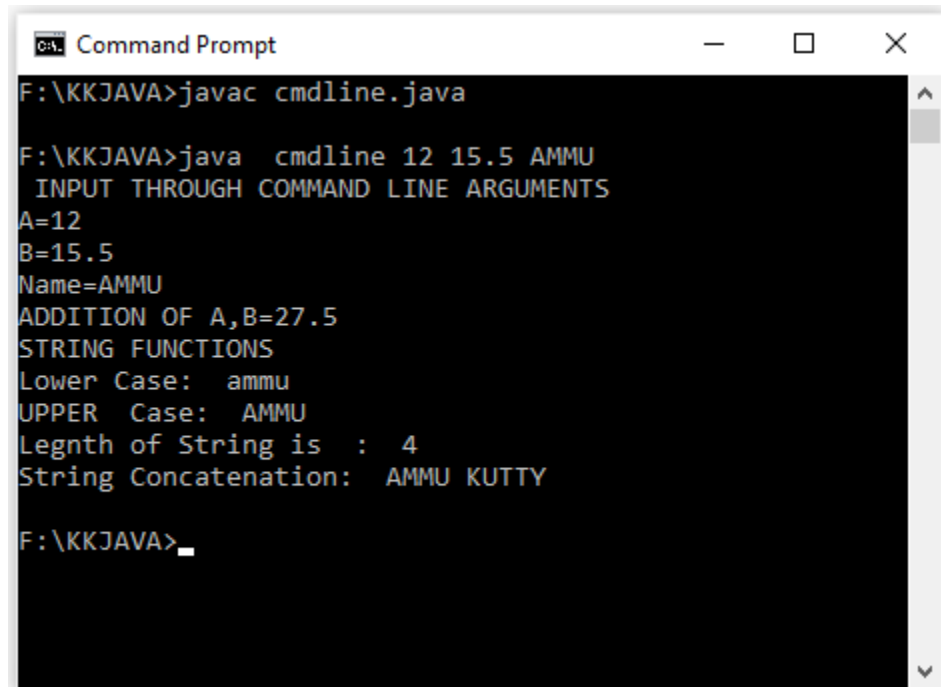
Step 7: stop the program.

PROGRAM

COMMAND LINE ARGUEMENT AND STRING FUNCTIONS

```
import java.io.*;
class cmdline
{
public static void main(String args[]) //args[0]=12 args[1]= 15.5 args[2]= AMMU
{
int a;
float b,c;
String s;
a=Integer.parseInt(args[0]);
b=Float.parseFloat(args[1]);
s=args[2];
c=a+b;
System.out.println(" INPUT THROUGH COMMAND LINE ARGUMENTS");
System.out.println("A="+a); System.out.println("B="+b);
System.out.println("Name="+s);
System.out.println("ADDITION OF A,B=" + c);
System.out.println("STRING FUNCTIONS");
System.out.println("Lower Case: "+ s.toLowerCase());
System.out.println("UPPER Case: "+ s.toUpperCase());
System.out.println("Legnth of String is : "+ s.length());
System.out.println("String Concatenation: "+ s.concat(" KUTTY"));
}
}
```

OUTPUT



```
Command Prompt
F:\KKJAVA>javac cmdline.java
F:\KKJAVA>java cmdline 12 15.5 AMMU
INPUT THROUGH COMMAND LINE ARGUMENTS
A=12
B=15.5
Name=AMMU
ADDITION OF A,B=27.5
STRING FUNCTIONS
Lower Case: ammu
UPPER Case: AMMU
Legnth of String is : 4
String Concatenation: AMMU KUTTY
F:\KKJAVA>
```

RESULT

The program takes command line arguments, converts them to respective data types, performs calculations, and implements string functions. The program runs successfully.

INHERITANCE

Ex. No. :10

Date: 17.09.2025

AIM

To implement Inheritance concept using Java.

ALGORITHM

Step 1: Start the program

Step 2: Create super class Room with methods

Step 3: Declare variable in the super class

Step 4: Create Sub class and extend the super class Step 4:

Create main class

Step 5: Initialise variables in the main class

Step 6: Create object for subclass and call methods to perform calculation. Step 7:


Display the output

PROGRAM

```
import java.io.*;
class Room
{
    int length,width;
    Room(int x, int y)
    {
        length=x;
        width=y;
    }
    int area()
    {
        return(length*width);
    }
}
class PoojaRoom extends Room
{
    int height; PoojaRoom(intx,int
y, int z)
    {
        super(x,y);
        height=z;
    }
    int volume()
    {
        return(length*width*height);
    }
}

public class Inherit2
{
    public static void main(String args[])
    {
        PoojaRoom P=new PoojaRoom(10,30,40); int
        A=P.area();
        int V=P.volume();
        System.out.println("INHERITANCE");
        System.out.println("From Super-Class");
        System.out.println("Area="+A);
        System.out.println("From Sub-Class");
        System.out.println("Volume="+V);
    } }
```

OUTPUT



```
C:\> Command Prompt

F:\KKJAVA>javac Inherit2.java

F:\KKJAVA>java Inherit2
INHERITANCE
From Super-Class
Area=300
From Sub-Class
Volume=12000

F:\KKJAVA>_
```

RESULT

The program demonstrates inheritance in Java, where the PoojaRoom subclass extends the Room superclass. The PoojaRoom class inherits the area() method from Room and also has its own volume() method. The program calculates and displays the area and volume of a room. The program runs successfully!

EXCEPTIONS

Ex. No. :11

Date: 24.09.2025

AIM :

To implement exceptions using Java.

ALGORITHM:

Step 1: Start the program

Step 2: Declare array A with size 3

Step 3: Take out array variables Step

4: Display the output

Step 5: Stop the program

Step 6: Compile and run the program

Step 7: It show I/O exception array index out of bounds Step 8:

Stop the program

1. Division by Zero Exception

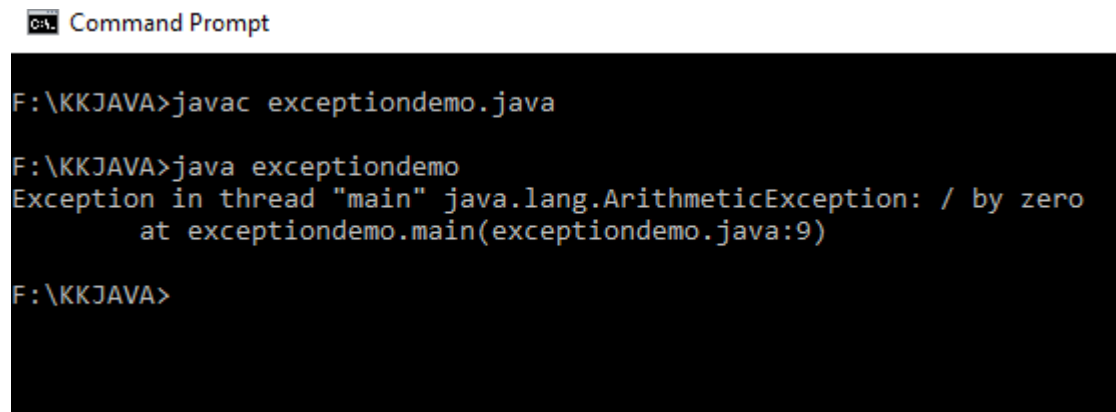
PROGRAM:

```
import java.io.*; class
exceptiondemo
{
public static void main(String args[])
{
int a=10,b=5,c=5; int
x=a/(b-c);
System.out.println("X="+ x); int
y=a/(b+c);
System.out.println("Y="+ y);
}
}
```

2. Array Index Out of Bounds Exception

```
import java.io.*; class
exceptiondemo2
{
public static void main(String args[])
{
inta[ ]={10,20,30};
System.out.println("A[0]="+a[0]);
System.out.println("A[1]="+a[1]);
System.out.println("A[2]="+a[2]);
System.out.println("A[3]="+a[3]);
}
}
```

OUTPUT-1



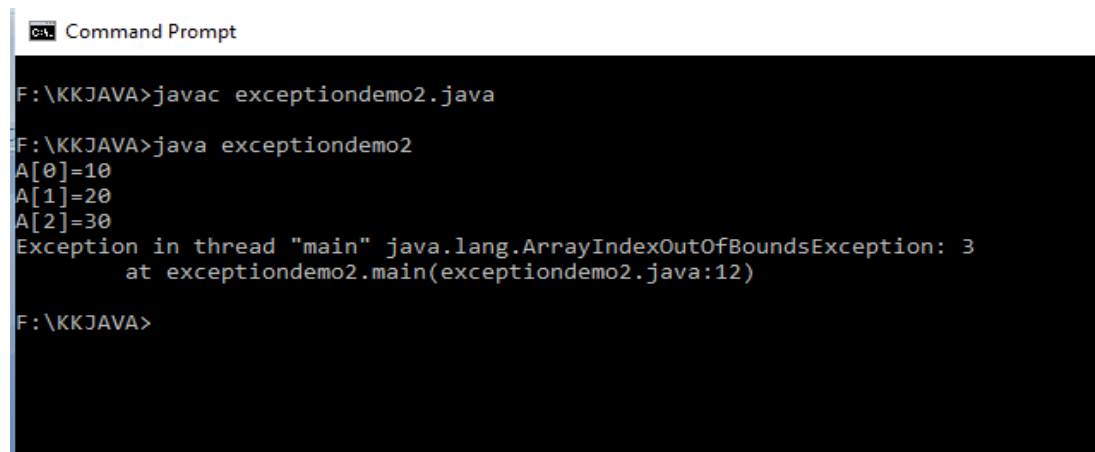
```
C:\> Command Prompt

F:\KKJAVA>javac exceptiondemo.java

F:\KKJAVA>java exceptiondemo
Exception in thread "main" java.lang.ArithmeticException: / by zero
    at exceptiondemo.main(exceptiondemo.java:9)

F:\KKJAVA>
```

OUTPUT-2



```
C:\> Command Prompt

F:\KKJAVA>javac exceptiondemo2.java

F:\KKJAVA>java exceptiondemo2
A[0]=10
A[1]=20
A[2]=30
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 3
    at exceptiondemo2.main(exceptiondemo2.java:12)

F:\KKJAVA>
```

RESULT:

Thus the program executed and the output obtained successfully.

MULTI- THREADING

Ex. No. :12

Date: 01.10.2025

AIM

To implement Multi-Threading using Java.

ALGORITHM

Step 1: Start the program

Step 2: Create Three classes and Extend Thread

Step 3: Declare variables and assign values for each Thread Step 4:

Create main class and objects for each class

Step 5: Start and Run the Threads through their objects Step 5:

Stop the program

PROGRAM

```
import java.io.*;
class A extends Thread
{
    public void run()
    {
        for(int i=1;i<=5;i++)
        {
            System.out.println("value from a i="+i);
        }
        System.out.println("exit from A");
    }
}
class B extends Thread
{
    public void run()
    {
        for(int i=1;i<=5;i++)
        {
            System.out.println("value from b i="+i);
        }
        System.out.println("exit from B");
    }
}
class C extends Thread
{
    public void run()
    {
        for(int i=1;i<=5;i++)
        {
            System.out.println("value from c i="+i);
        }
        System.out.println("exit from C");
    }
}
class threaddemo
{
    public static void main(String args[])
    {
        new A().start();
        new B().start();
        new C().start();
    }
}
```

OUTPUT

```
value from b i=1  
value from a i=1  
value from a i=2  
value from b i=2  
value from c i=1  
value from a i=3  
value from c i=2  
value from c i=3  
value from b i=3  
value from c i=4  
value from a i=4  
value from c i=5  
value from b i=4  
exit from C  
value from a i=5  
value from b i=5  
exit from A  
exit from B
```

RESULT:

Thus the program executed and the output obtained successfully

PACKAGE

Ex. No. :13

Date: 01.10.2025

AIM

To implement packages using Java.

ALGORITHM

Step 1: Create a new folder p2

Step 2: Inside p2, create a sub folder P1 and class C2 Step 3:

Create a package p1 in class C1 inside folder p1 Step 4: Class

c2 as a main class which imports package p1 Step 5: Perform

the operation

Step 6: Display the output Step

7: Stop the program

PROGRAM

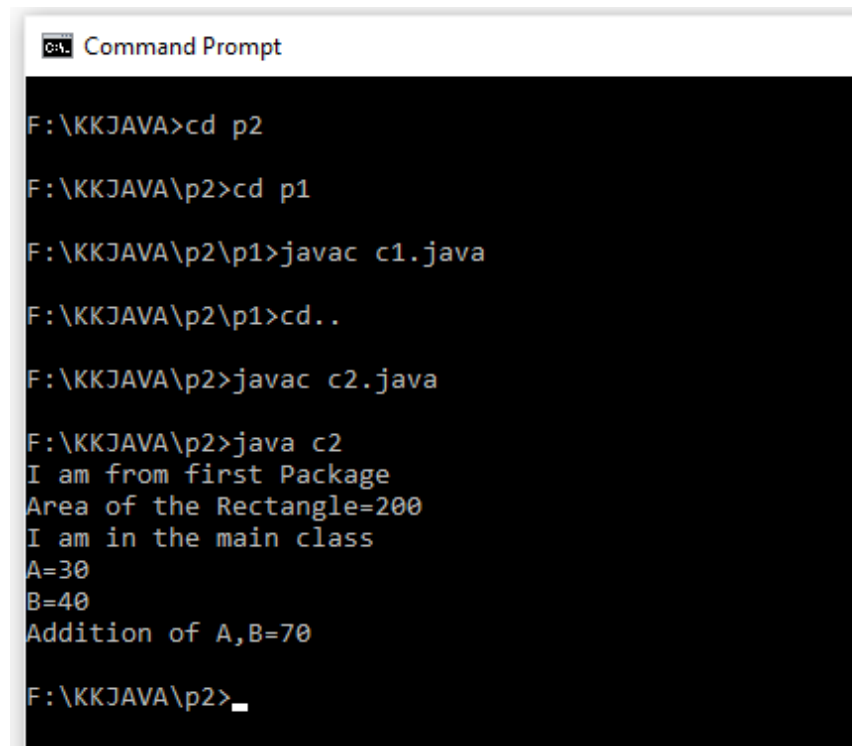
PACKAGE P1\C1.JAVA

```
package p1; public
class c1
{
public void display()
{
int l=10;
int h=20;
System.out.println("I am from first Package"); int
area=l*h;
System.out.println("Area of the Rectangle="+ area);
}
}
```

PROGRAM: FOLDER P2\C2.JAVA

```
import p1.*; public
class c2
{
public static void main(String args[])
{
c1 obj=new c1();
obj.display();
System.out.println("I am in the main class"); int
a=30, b=40;
int c=a+b; System.out.println("A="
+a); System.out.println("B=" +b);
System.out.println("Addition of A,B=" +c);
}
}
```

OUTPUT



```
Command Prompt

F:\KKJAVA>cd p2
F:\KKJAVA\p2>cd p1
F:\KKJAVA\p2\p1>javac c1.java
F:\KKJAVA\p2\p1>cd..
F:\KKJAVA\p2>javac c2.java
F:\KKJAVA\p2>java c2
I am from first Package
Area of the Rectangle=200
I am in the main class
A=30
B=40
Addition of A,B=70
F:\KKJAVA\p2>_
```

RESULT

The program successfully demonstrates package usage in Java by calculating rectangle area and performing addition. It prints area and addition results, showcasing package implementation.

INTERFACE

Ex. No. :14

Date: 08.10.2025

AIM

To implement interface using Java.

ALGORITHM

Step 1: Start the program

Step 2: Create an interface I1 with a variable.

Step 3: Create a class C1 and implement Interface

Step 4: Access the variable in interface I1 and use in main class to perform calculation. Step 5:

Create a main class with object to call the methods in C1.

Step 6: Print the results. Step

7: Stop the program

PROGRAM

```
import java.io.*;

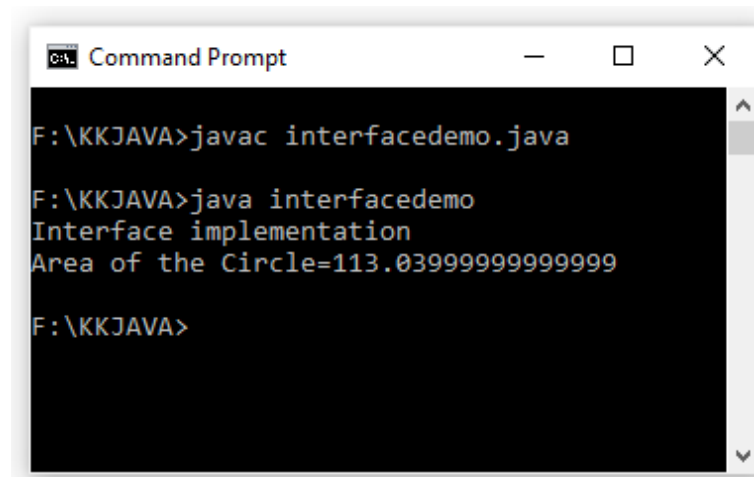
interface I1
{
    int r=6;
}

class C1 implements I1
{
    void display()
    {
        double pi=3.14;
        System.out.println("Area of the Circle="+pi*r*r);
    }
}

class interfacedemo
{
    public static void main(String args[])
    {
        System.out.println("Interface implementation"); C1
        obj=new C1();
        obj.display();

    }
}
```

OUTPUT



```
Command Prompt

F:\KKJAVA>javac interfacedemo.java

F:\KKJAVA>java interfacedemo
Interface implementation
Area of the Circle=113.03999999999999

F:\KKJAVA>
```

RESULT

The program implements an interface I1 with a variable r, which is used by class C1 to calculate and print the area of a circle. The output is Area of the Circle=113.04.

LAYOUT MANAGER (FLOW LAYOUT)

Ex. No.: 15

Date: 08.10.2025

AIM

To create a flow layout with layout manager using Java.

ALGORITHM

Step 1: Start the program

Step 2: Create a class and extend Frame Step 3:

Declare array S[]

Step 4: Create an object for Frame using `Frame f= new Frame()` Step 5:

Create Buttons and add buttons in flowlayout using `FlowLayout()`

Step 6: Create a main class and create an object for Frame class and show layout. Step 7:

Stop the program.

PROGRAM

```
import java.awt.*;
import java.applet.*;
public class layout extends Applet
{
String s[]={"ONE","TWO","THREE","FOUR","FIVE","SIX"};
public void init()
{
for(int i=0;i<5;i++)
{
setLayout(new FlowLayout()); add(new
Button(s[i]));
}
}
}
//<applet code="layout.class" height=400 width=500></applet>
```


OUTPUT



```
Command Prompt

F:\KKJAVA>javac InputDemo.java
Note: InputDemo.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

F:\KKJAVA>java InputDemo
DATA INPUT STREAM
Enter a Numeric Value
50
Enter a Floating point Value
25.5
Enter a String Value
COMPUTER SCIENCE
A=50
B=25.5
S=COMPUTER SCIENCE
C=A+B:75.5

F:\KKJAVA>
```

RESULT

The Java program creates a FlowLayout with buttons labeled "ONE" to "FIVE" using AWT. The buttons are arranged horizontally in a flow layout within an applet window.

