**Session 1 Installation & First Program**

1. Write a program to input any numbers and swap or interchange the value of both the variables.
2. Write a program to take three values and again interchange without using 4th variable.
3. Write a program to input any temperature and convert it into farnite and also Celsius.
4. Write a program to read value of A,B,C and find the roots of the quadric equation.
5. Write a program to any radius and print the area of circle.
6. Write a program to convert the temperature (a) from Celsius to Fahrenheit and (b) from Fahrenheit to Celsius. **(Hint: F=(9C/5+32))**
7. Write a program to swap value of two variables without using arithmetic operators and third variable.
8. Ramesh’s basic salary is input through the keyboard. His dearness allowance is 40% of basic salary, and house rent allowance is 20% of basic salary. Write a program to calculate his gross salary.

1.

import java.util.\*;

class Swap\_With {

    public static void main(String[] args) {

       int x, y, t;// x and y are to swap

       Scanner sc = new Scanner(System.in);

       System.out.println("Enter the value of X and Y");

       x = sc.nextInt();

       y = sc.nextInt();

       System.out.println("before swapping numbers: "+x +"  "+ y);

       /\*swapping \*/

       t = x;

       x = y;

       y = t;

       System.out.println("After swapping: "+x +"   " + y);

       System.out.println( );

    }

}

2.

import java.util.\*;

class Swap

{

    public static void main(String a[])

    {

        System.out.println("Enter the value of x and y");

        Scanner sc = new Scanner(System.in);

        /\*Define variables\*/

        int x = sc.nextInt();

        int y = sc.nextInt();

        System.out.println("before swapping numbers: "+x +" "+ y);

       /\*Swapping\*/

        x = x + y;

        y = x - y;

        x = x - y;

        System.out.println("After swapping: "+x +"  " + y);

    }

}

3

public class Celsius

 {

   public static void main (String args[])

    { float Fahrenheit, Celsius;

          Fahrenheit = 43;

          Celsius  = ((Fahrenheit-32)\*5)/9;

          System.out.println("Temperature in celsius is: "+Celsius);

    }}

4

import java.util.Scanner;

public class QuadraticEquationExample1

{

public static void main(String[] Strings)

{

Scanner input = new Scanner(System.in);

System.out.print("Enter the value of a: ");

double a = input.nextDouble();

System.out.print("Enter the value of b: ");

double b = input.nextDouble();

System.out.print("Enter the value of c: ");

double c = input.nextDouble();

double d= b \* b - 4.0 \* a \* c;

if (d> 0.0)

{

double r1 = (-b + Math.pow(d, 0.5)) / (2.0 \* a);

double r2 = (-b - Math.pow(d, 0.5)) / (2.0 \* a);

System.out.println("The roots are " + r1 + " and " + r2);

}

else if (d == 0.0)

{

double r1 = -b / (2.0 \* a);

System.out.println("The root is " + r1);

}

else

{

System.out.println("Roots are not real.");

}

}

}

5

// Java program to calculate the area of the

public class Test {

public static void main(String[] args)

{

int radius;

double pi = 3.142, area;

radius = 5;

// calculating the area of the circle

area = pi \* radius \* radius;

// printing the area of the circle

System.out.println("Area of circle is :" + area);

}

}

6

class FahrenheittoCelsius

{

public static void main(String arg[])

{

    double a,c;

                 Scanner sc=new Scanner(System.in);

    System.out.println("Enter  Fahrenheit temperature");

                   a=sc.nextDouble();

    System.out.println("Celsius temperature is = "+celsius(a));

}

static double celsius(double f)

{

return  (f-32)\*5/9;

}

}

7

import java.util.\*;

class Swap

{

    public static void main(String a[])

    {

        System.out.println("Enter the value of x and y");

        Scanner sc = new Scanner(System.in);

        /\*Define variables\*/

        int x = sc.nextInt();

        int y = sc.nextInt();

        System.out.println("before swapping numbers: "+x +" "+ y);

       /\*Swapping\*/

        x = x ^y;

        y = x ^ y;

        x = x ^y;

        System.out.println("After swapping: "+x +"  " + y);

    }

}

8

import java.util.Scanner;

public class Funycode {

public static void main(String[] args) {

int s,r;

Scanner z=new Scanner(System.in);

s=z.nextInt();

r=(s+(s\*20)/100+(s\*40)/100);

System.out.println("Gross Salary="+r);

}

}