```
//P1 Write a java Program to Print Hello World

class HelloWorld {

   public static void main(String[] args) {

      System.out.println("Hello World!");

   }

}

/*P2 Write a java program to add, sub,multiply and divide two integers
numbers.*/

public class JavaProgram

{

   public static void main(String args[])

 {

   int first=10, second=20, add, subtract, multiply;

   float devide;

   add = first + second;

   subtract = first - second;

   multiply = first * second;

   devide = (float) first / second;

   System.out.println("Sum = " + add);

   System.out.println("Difference = " + subtract);

   System.out.println("Multiplication = " + multiply);

   System.out.println("Division = " + devide);
```

```
 }
}
//P3  write a java Program to swap two numbers.
class Swap
 {
   public static void main(String[] args)
{
     int x, y, t;// x and y are to swap
     x=10;
     y=20;
     System.out.println("before swapping numbers: "+x +"  "+ y);
     t = x;
     x = y;
     y = t;
     System.out.println("After swapping: "+ x + "   " + y);
     System.out.println( );
   }
}

//P4  Write a java Program to Check the Number is Positive, Negative or Zero
public class Check
{
```

```
public static void main(String[] args)
{
int num=912;
if(num>0)
{
System.out.println("The number is positive.");
}
else if(num<0)
{
System.out.println("The number is negative.");
}
else
{
System.out.println("The number is zero.");
}
}
}
// P5 Write a java Program to check whether a given number is even or odd
public class EvenOdd {
   public static void main(String[] args) {
        int num=20;
     if(num % 2 == 0)
```

```
        System.out.println(num + " is even");
      else
        System.out.println(num + " is odd");
   }
}
//P6 Write a java Program to find the maximum and minimum of three numbers
public class Example {
  public static void main(String args[]) {
    int num1 = 15;
    int num2 = -5;
    int num3 = 7;
    if (num1 >= num2 && num1 >= num3)
      System.out.println( num1 + " is the maximum number.");
    else if (num2 >= num1 && num2 >= num3)
      System.out.println( num2 + " is the maximum number.");
    else
      System.out.println( num3 + " is the maximum number.");
  }
}
/*PL 7 (1.2) Write a simple java application to print a pyramid with 5 lines.
 The first line has one character; the second line has two characters and so on.
 The character to be used in the pyramid is taken as a command line argument.
```

```
 Java code to demonstrate star patterns*/

public class Pyramid

{       public static void main(String args[])

        {

                int i, j, n=5;

                for(i=0; i<n; i++)

                {

                        for(j=0; j<=i; j++)

                        {


                                System.out.print("* ");

                        }

                        System.out.println();

        }       }

}
```

//PL8 (1.1) Write a java Program to find the sum of all integers than 100 & less than 200 and are divisible by 5

```
public class SumCountDivisibleBy5

{

        public static void main(String args[])

        {

                int i,sum=0, count=0;
```

```
            for(i=101; i<200; i++)
            {
                if(i%5==0)
                {
                sum=sum+i;
                 count++;
                }

            }
        System.out.println("sum of number between 100 and 200 which are
        divisible by 5"+sum);
        System.out.println("Total number between 100 and 200 which are
        divisible by 5"+count);
        }
}
// P9 Write a java Program to make Simple Calculator.  (input)
import java.util.Scanner;
public class cals
{
  public static void main(String[] args)
  {
    float a, b, res;
```

```
int choice;
    Scanner scan = new Scanner(System.in);
System.out.println("1. Addition");
System.out.println("2. Subtraction");
System.out.println("3. Multiplication");
System.out.println("4. Division");
System.out.print("Enter Your Choice (1-4): ");
choice = scan.nextInt();
if(choice>=1 && choice<=4)
{
  System.out.print("\nEnter any Two Number: ");
  a = scan.nextFloat();
  b = scan.nextFloat();
  if(choice==1)
    res = a+b;
  else if(choice==2)
    res = a-b;
  else if(choice==3)
    res = a*b;
  else
    res = a/b;
  System.out.println("\nResult = " +res);
```

```
    }
    else
      System.out.println("\nInvalid Choice!");
  }
}
```

/*PL10 (1.3) Write a Java application which takes several command line arguments, which are supposed to be the names of students and prints output as given below: Number of arguments = 3 1: Tom 2: Dick 3: Harry */

```
class CommLine
{
public static void main(String a[])
{
for(int i=0;i<a.length;i++)
{
System.out.println(str[i]+"Student Name is="+str[i]);
}
}
}
```

// P11 Write a java Program to find a Factorial of given number

```
class FactorialExample{
   public static void main(String args[]){
```

```
        int i,factorial=1;
        int n = 8;
        for(i=1;i<=n;i++){
           factorial = factorial*i;
        }
        System.out.println(factorial+" is the factorial of: "+n);
    }
}
//P12  Write a java Program to print fibonacci series
class FibonacciWithoutRecursion{
    public static void main(String args[])
    {
        int number1=0, number2=1, number3, i, count=5;
        System.out.print(number1+" "+number2);

              for(i=2; i<count; ++i)
        {
           number3 = number1+number2;
           System.out.print(" "+number3);
           number1 = number2;
           number2 = number3;
        }
```

```
   }
}
//P13 Write a java Program to checked given number is a Prime number or Not
public class PrimeNumber{
 public static void main(String args[])
 {
  int i,m=0,flag=0;
  int n=5;//it is the number to be checked
  m=n/2;
  if(n==0||n==1)
{
   System.out.println(n+" is not prime number");
}
else
{
  for(i=2;i<=m;i++)
  {
    if(n%i==0)
    {
      System.out.println(n+" is not prime number");
      flag=1;
      break;
```

```
      }
   }
 if(flag==0)
  { System.out.println(n+" is prime number"); }
}
}
}
// P14  Write a java Program to Display Array
class Testarray
{
public static void main(String args[])
{
int a[]={10,20,70,40,50};
for(int i=0;i<a.length;i++)
          System.out.println(a[i]);
}
}
// P15 write a java Program Sort the array in ascending order
public class SortAsc {
   public static void main(String args[]) {
          int arr[]  = {5, 2, 8, 7, 1};
          int temp = 0;
```

```
        System.out.println("Elements of original array: ");
        for (int i = 0; i < arr.length; i++) {
           System.out.print(arr[i] + " ");
        }
        for (int i = 0; i < arr.length; i++) {
           for (int j = i+1; j < arr.length; j++) {
              if(arr[i] > arr[j]) {
                 temp = arr[i];
                 arr[i] = arr[j];
                 arr[j] = temp;
              }
           }
        }
        System.out.println();
        System.out.println("Elements of array sorted in ascending order: ");
        for (int i = 0; i < arr.length; i++)
 {
           System.out.print(arr[i] + " ");
        }
     }
}
```