```
//  1 . Write a Java program to print the sum of two numbers

public class SumOfNum

{

public static void main(String args[])

{

int n1 = 225, n2 = 115, sum;

sum = n1 + n2;

System.out.println("The sum of numbers is: "+sum);

}

}
```

// 2. Write a Java program to accept a number and check the number is even or not. Prints 1 if the number is even or 0 if the number is odd

```
import java.util.*;

 public class ifelse {

    public static void main(String[] args){

            Scanner in = new Scanner(System.in);

            System.out.print("Input a number: ");

    int n = in.nextInt();

          if (n % 2 == 0) {

             System.out.println(1);

            }

                                  else {

             System.out.println(0);

           }

    }
```

```
}
```

// 3. Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers arithmetic operation will be of user choice.

```
import java.util.Scanner;

public class sum {

 public static void main(String[] args) {

  Scanner in = new Scanner(System.in);

    System.out.print("Input first number: ");

  int num1 = in.nextInt();

  System.out.print("Input second number: ");

  int num2 = in.nextInt();

  System.out.println(num1 + " + " + num2 + " = " +

  (num1 + num2));

  System.out.println(num1 + " - " + num2 + " = " +

  (num1 - num2));

  System.out.println(num1 + " x " + num2 + " = " +

  (num1 * num2));

  System.out.println(num1 + " / " + num2 + " = " +

  (num1 / num2));

  System.out.println(num1 + " mod " + num2 + " = " +

  (num1 % num2));

 }

}
```

// 4 // 5. Write a Java program and compute the sum of the digits of an integer. Go to the editor Input Data: Input an integer: 25 Expected Output 5. The sum of the digits is: 7

```
 import java.util.Scanner;
```

```
public class sumofdigit {

  public static void main(String[] args)

   {

     Scanner in = new Scanner(System.in);

     System.out.print("Input an integer: ");

     int digits = in.nextInt();

            System.out.println("The sum is " + sumDigits(digits));

   }

 public static int sumDigits(long n) {

                    int result = 0;

                    while(n > 0) {

                              result += n % 10;

                              n /= 10;

                    }

                    return result;

          }

}
// 6. Write a Java program to reverse a string

import java.util.Scanner;

public class strrev {

    public static void main(String[] args) {

       Scanner scanner = new Scanner(System.in);

       System.out.print("Input a string: ");

       char[] letters = scanner.nextLine().toCharArray();

       System.out.print("Reverse string: ");
```

```
        for (int i = letters.length - 1; i >= 0; i--) {
            System.out.print(letters[i]);
        }
        System.out.print("\n");
    }
}
// 7. Write a Java program to count the letters, spaces, numbers and other characters of an input string.
import java.util.Scanner;
public class strcount {
 public static void main(String[] args) {
                String test = " Hello World 1 2 3 ";
                count(test);
        }
        public static void count(String x){
                char[] ch = x.toCharArray();
                int letter = 0;
                int space = 0;
                int num = 0;
                int other = 0;
                for(int i = 0; i < x.length(); i++){
                        if(Character.isLetter(ch[i])){
                                letter ++ ;
                        }
                        else if(Character.isDigit(ch[i])){
                                num ++ ;
```

```
                        }
                        else if(Character.isSpaceChar(ch[i])){
                                space ++ ;
                        }
                        else{
                                other ++;
                        }
                }
                System.out.println("The string is : Hello World 1 2 3");
                System.out.println("letter: " + letter);
                System.out.println("space: " + space);
                System.out.println("number: " + num);
                System.out.println("other: " + other);
                        }
}
//8. Write a Java program to print the ascii value of a given character.
import java.util.Scanner;
public class PrintAsciiValueExample4
{
public static void main(String args[])
{
System.out.print("Enter a character: ");
Scanner sc = new Scanner(System.in);
char chr = sc.next().charAt(0);
int asciiValue = chr;
```

```
System.out.println("ASCII value of " +chr+ " is: "+asciiValue);

}

}

// 9. Write a Java program to display the system time.

public class Exercise46 {

  public static void main(String[] args){

        System.out.format("\nCurrent Date time: %tc%n\n", System.currentTimeMillis());

    }

}

//  10. Write a Java program to print the odd numbers from 1 to 9. Prints one number per line.

import java.util.*;

 public class noOfline {

     public static void main(String[] args){

            for (int i = 1; i < 10; i++) {

                                if (i % 2 != 0) {

                                        System.out.println(i);

                                }

                        }

    }

}

// 11. Write a Java program to capitalize the first letter of each word in a sentence.

import java.util.*;

 public class capitalStr {

     public static void main(String[] args){

             Scanner in = new Scanner(System.in);
```

```
    System.out.print("Input a Sentence: ");
            String line = in.nextLine();
            String upper_case_line = "";
      Scanner lineScan = new Scanner(line);
        while(lineScan.hasNext()) {
           String word = lineScan.next();
           upper_case_line += Character.toUpperCase(word.charAt(0)) + word.substring(1) + " ";
        }
     System.out.println(upper_case_line.trim());
   }
}
//12. Write a Java program to reverse a word
import java.util.*;
 public class wordrev {
    public static void main(String[] args){
    Scanner in = new Scanner(System.in);
    System.out.print("\nInput a word: ");
            String word = in.nextLine();
            word = word.trim();
            String result = "";
    char[] ch=word.toCharArray();
            for (int i = ch.length - 1; i >= 0; i--) {
                        result += ch[i];
                }
            System.out.println("Reverse word: "+result.trim());
```

```
        }
}
```

// 13 // 14 //15 . Write a Java program to get the larger value between first and last element of an array (length 3) of integers. Go to the editor Sample Output: 14. Original Array: [20, 30, 40] 15. Larger value between first and last element: 40

```
import java.util.Arrays;
 public class maxSize {
 public static void main(String[] args)
 {
   int[] array_nums = {20, 30, 40};
        System.out.println("Original Array: "+Arrays.toString(array_nums));
        int max_val = array_nums[0];
        if(array_nums[2] >= max_val)
            max_val = array_nums[2];
        System.out.println("Larger value between first and last element: "+max_val);
 }
}
```

// 16. Write a Java program to sort array elements.

```
public class SortAsc {
   public static void main(String[] args) {
      //Initialize array
      int [] arr = new int [] {5, 2, 8, 7, 1};
      int temp = 0;
      //Displaying elements of original array
      System.out.println("Elements of original array: ");
      for (int i = 0; i < arr.length; i++) {
```

```
        System.out.print(arr[i] + " ");
      }
      //Sort the array in ascending order
      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();
      //Displaying elements of array after sorting
      System.out.println("Elements of array sorted in ascending order: ");
      for (int i = 0; i < arr.length; i++) {
        System.out.print(arr[i] + " ");
      }
   }
}
// 17. Write a program to add two numbers using function overloading.
class Adder{
static int add(int a,int b){return a+b;}
static int add(int a,int b,int c){return a+b+c;}
}
```

```
class TestOverloading1{

public static void main(String[] args){

System.out.println(Adder.add(11,11));

System.out.println(Adder.add(11,11,11));

}}

// 18. Write a program to input Employee Details and display it on proper format.

import java.util.*;

public class EmpData

{

   public static void main(String args[])

   {

      Scanner sc = new Scanner(System.in);


      String ename;

      System.out.println("enter the ename of Employee :-");

      ename=sc.nextLine();


      int eid;

      System.out.println("enter the eid of Employee:-");

      eid=sc.nextInt();


      int Salary;

      System.out.println("enter the Salary of Employee :-");

      Salary=sc.nextInt();
```

```
        System.out.println();


        System.out.println("eid : "+eid);
        System.out.println("ename : "+ename);
        System.out.println("Salary : "+Salary);
    }
}
```

//19. Write a program to design three classes that accept dimension of triangle and rectangle and calculate area of rectangle and triangle

```
import java.util.Scanner;
class AreaOfTriangle
{
  void Triangle()
   {

     Scanner s= new Scanner(System.in);

        System.out.println("Enter the width of the Triangle:");
        double b= s.nextDouble();
          System.out.println();
        System.out.println("Enter the height of the Triangle:");
         double h= s.nextDouble();

              //Area = (width*height)/2
     double area=(b*h)/2;
```

```
    System.out.println("Area of Triangle is: " + area);
  }
}
class AreaOfRectangle extends AreaOfTriangle
{
  void Rectangle()
  {
     Scanner a= new Scanner(System.in);

      System.out.println("Enter the width of the Rectangle:");
      double b1= a.nextDouble();
        System.out.println();
      System.out.println("Enter the height of the Rectangle:");
       double h1= a.nextDouble();

            //Area = (width*height)
    double area1=(b1*h1);
    System.out.println("Area of Rectangle is: " + area1);
  }
  public static void main(String args[])
  {
     AreaOfRectangle a1 = new AreaOfRectangle();
     a1.Triangle();
     System.out.println();
     a1.Rectangle();
```

```
   }
}
```

//20. Write a program which design Bank Account class as Saving and Current Account and manage information accordingly

```
class bankAccount
{
 private static int nextAccountNumber = 1;
 private String person;
 private int number;
 private double balance;
 bankAccount(String p, double b)
{
 person = p;
 balance = b;
 number = nextAccountNumber;
 nextAccountNumber += 1;
 }
public int getNumber()
{
return number;
}
 public String getName()
{
return person;
}
```

```
 public double getBalance()

{

return balance;

}

 public void deposit(double a)

{

balance += a;

}

}
```

//21. Write a program which design a class name Fan to represent fan properties according to these properties Fan operation will be performed.

```
class Fan

{

 public static final int SLOW=1,MEDIUM=2,FAST=3;

 int speed;

 boolean f_on;

 double radius;

 String color;

 Fan()

 {

  speed=SLOW;

  f_on=false;

  radius=4;

  color="blue";

 }
```

```
 Fan(int speed,double radius,String color,boolean f_on)
 {
  this.speed=speed;
  this.radius=radius;
  this.color=color;
  this.f_on=f_on;
 }
 void display()
 {
  if(f_on==true)
  {
   System.out.println("Fan is on \n the speed is ="+speed+"\n the color is ="+color+"\n the radius is
="+radius);
  }
  else
  {
   System.out.println("Fan is off \n the color of fan is ="+color+"\n the radius of fan is ="+radius);
  }
 }
public static void main(String [] args)
{
 Fan obj = new Fan();
 Fan obj1 = new Fan(MEDIUM,6,"brown",true);
 obj.display();
 obj1.display();  }}
```