```
class helloworld
{
   public static void main(String[] args)
   {
      System.out.println("hello world");
      int a=10,b=20,c;
      c=a+b;
      System.out.println("output:"+c);

   }
}
```

Odd or Even:

```
import java.util.*;
class OddEven
{
   public static void main(String[] args)
   {
      System.out.print("Enter the number:");
      Scanner s= new Scanner(System.in);
      int n=s.nextInt();
      if(n%2==0)
      {
         System.out.println("The given number "+ n + " is even");
      }
      else
      {
         System.out.println("The given number "" + n + " is odd");
      }
   }
}
```

Leap year or not:

```
import java.util.Scanner;
public class LeapYear {
  public static void main(String[] args){
    int year;
    System.out.println("Enter an Year : ");
    Scanner sc = new Scanner(System.in);
    year = sc.nextInt();

    if (((year % 4 == 0) && (year % 100!= 0)) || (year%400 == 0))
```

```
      System.out.println("leap year");
    else
      System.out.println("Not aleap year");
  }
}
```

```
import java.util.Scanner;
public class Voting {
  public static void main(String[] args){
    int age;
    System.out.println("Enter your age : ");
    Scanner sc = new Scanner(System.in);
    age = sc.nextInt();

    if (age>=18)
      System.out.println("Eligible for vote");
    else
      System.out.println("Not Eligible for vote");
  }
}
```

```
import java.util.Scanner;
public class Voting {
  public static void main(String[] args){
    int num;
    System.out.println("Enter a num : ");
    Scanner sc = new Scanner(System.in);
    num = sc.nextInt();

    if (num>=18)
      System.out.println("Positive");
    else if( num==0)
      System.out.println("Neutral num");
    else
      System.out.println("Negative");
  }
}
```

```
import java.util.Scanner;
public class SumOfSeries{
  public static void main(String[] args){
```

```
      int num,sum=0;
      System.out.println("Enter a num : ");
      Scanner sc = new Scanner(System.in);
      num = sc.nextInt();
      for(int i=0;i<=num;i++)
      {
         sum=sum+i;
      }
      System.out.print("Sum is:"+ sum);

   }
}



class si
{
    public static void main(String[] args)
    {
        double p = 100000, t = 3, r = 3.5, si;
        si = (p * t * r) / 100;
        System.out.println("simple intrest:" + si);
    }
}

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

    int n = 10, firstTerm = 0, secondTerm = 1;
    System.out.println("Fibonacci Series till " + n + " terms:");

    for (int i = 1; i <= n; ++i) {
      System.out.print(firstTerm + ", ");

      // compute the next term
      int nextTerm = firstTerm + secondTerm;
      firstTerm = secondTerm;
      secondTerm = nextTerm;
    }
  }
}


class FactorialExample{
```

```
 public static void main(String args[]){
  int i,fact=1;
  int number=5;//It is the number to calculate factorial
  for(i=1;i<=number;i++){
      fact=fact*i;
  }
  System.out.println("Factorial of "+number+" is: "+fact);
 }
}
```

```
import java.util.Scanner;

class Prime {
    public static void main(String[] args) {
        int num, i = 2; // Initialize i to 2
        boolean flag = false;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        num = sc.nextInt();
        while (i <= num / 2) {
            if (num % i == 0) {
                flag = true;
                break;
            }
            ++i; // Added semicolon
        }
        if (!flag)
            System.out.println(num + " is a prime number.");
        else
            System.out.println(num + " is not a prime number.");
    }
}
```

```
import java.util.Scanner;
public class SumOfSeries{
   public static void main(String[] args){
      int num,sum=0;
      System.out.println("Enter a num : ");
      Scanner sc = new Scanner(System.in);
      num = sc.nextInt();
      for(int i=0;i<=num;i++)
      {
```

```
        sum=sum+i;
    }
    System.out.print("Sum is:"+ sum);

  }
}
```

```
import java.util.Scanner;

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

      System.out.println("Enter your department in CAP: ");
      Scanner dep = new Scanner(System.in);
      String department = dep.nextLine();

      if (department.equals("CSE") || department.equals("AIDS") || department.equals("AIML") ||
          department.equals("ECE") || department.equals("CIVIL") || department.equals("MECH"))
{
          System.out.println("SSE");
      } else if (department.equals("ARTS")) {
          System.out.println("SCLAS");
      } else if (department.equals("ARCHITECTURE")) {
          System.out.println("SCAD");
      } else {
          System.out.println("Please Enter correct DEP");
      }
   }
}
```

1. Write a program to reverse a word using loop? (Not to use inbuilt functions)

Sample Input:

String: TEMPLE

Sample Output:

Reverse String: ELPMET

Test cases:

1. SIGN UP

2. AT-LEAST

3. 1245

4. !@#$%

5. 145*999=144855

```
import java.util.*;


public class POLINDROME {

		public static void main(String[] args)
		{

		   System.out.print("Enter the user name:");
		   Scanner input=new Scanner (System.in);
		   String s1=input.nextLine();
		   System.out.print("Reenter the user name:");
		   String s2=input.nextLine();
		   if (s1==s2)
		   {
		      System.out.print("User name is valid");
		   }
		   else
		   {
		      System.out.print("User name is invalid");
		   }

		}
	}
import java.util.Scanner;

public class SimpleInterestCalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the principal amount: ");
        double principal = scanner.nextDouble();

        System.out.print("Enter the no of years: ");
        int years = scanner.nextInt();

        System.out.print("Is customer senior citizen (y/n): ");
```

```
        String isSenior = scanner.next();

        if (principal <= 0 || years <= 0) {
            System.out.println("Invalid input. Principal and years should be positive values.");
        } else {
            double rateOfInterest = isSenior.equalsIgnoreCase("y") ? 0.12 : 0.10;
            double interest = principal * rateOfInterest * years;

            System.out.println("Interest: " + interest);
        }
    }
}
```

```
import java.util.Scanner;

public class DaysConverter {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of days: ");
        int totalDays = scanner.nextInt();

        if (totalDays < 0) {
            System.out.println("Invalid input. Number of days should be a non-negative integer.");
        } else {
            int years = totalDays / 365;
            int remainingDays = totalDays % 365;
            int weeks = remainingDays / 7;
            int days = remainingDays % 7;

            System.out.println("No. of years: " + years);
            System.out.println("No. of weeks: " + weeks);
            System.out.println("No. of days: " + days);
        }
    }
}
```