**Day 1**

**Reverse:**

import java.util.\*;

class ReverseString{

public static void main(String[] arg){

Scanner s = new Scanner(System.in);

System.out.println("Enter string");

String str = s.nextLine();

String str1="";

System.out.println("Reverse string is ");

for(int i=str.length()-1;i>=0;i--)

{

str1=str1+str.charAt(i);

}

System.out.println(str1);

}

}

**Prime number:**

import java.util.\*;

class Prime\_numbers {

public static void main(String[] arg){

System.out.println("Prime numbers between 2 and 20 are ");

for(int i=2;i<=20;i++)

{

if(fact(i)==2)

System.out.print(" "+i+" ");

}

}

static int fact(int n)

{

int x=0;

for(int i=1;i<=n;i++)

{

if(n%i==0)

++x;

}

return x;

}

}

**Table:**

class tables {

public static void main(String[] arg){

for(int i=2;i<=5;i++)

{

System.out.println(i+" Table ");

print\_table(i);

}

}

static void print\_table(int n){

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

{

System.out.print(" "+n\*i+" ");

}

System.out.println();

}

}

**Even and Odd:**

class Even\_Odd\_numbers {

public static void main(String[] arg){

System.out.println("Even numbers between 1 and 20 are ");

for(int i=1;i<=20;i++)

{

if(i%2==0)

System.out.print(" "+i+" ");

}

System.out.println();

System.out.println("Odd numbers between 1 and 20 are ");

for(int i=1;i<=20;i++)

{

if(i%2!=0)

System.out.print(" "+i+" ");

}

}

}

**Student\_division:**

class Switch\_case {

public static void main(String[] arg){

Scanner s = new Scanner(System.in);

System.out.println("Enter percentage ");

float n = s.nextFloat();

int a;

if(n<35)

a=1;

else if(n>=35 && n<50)

a=2;

else if(n>=50 && n<75)

a=3;

else if(n>=75 && n<90)

a=4;

else

a=5;

switch(a){

case 1: System.out.println("Fail");break;

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

case 3: System.out.println("Second Division");break;

case 4: System.out.println("First Division");break;

case 5: System.out.println("Distinction");

}

}

}

**Factorial:**

import java.util.\*;

class Factorial {

public static void main(String[] arg){

Scanner s = new Scanner(System.in);

System.out.println("Enter number ");

int n=s.nextInt();

int fac=1;

for(int i=1;i<=n;i++)

fac=fac\*i;

System.out.println("The factorial of "+n+" is "+fac);

}

}

**Swap:**

import java.util.Scanner;

class swap {

public static void main(String[] arg){

Scanner s = new Scanner(System.in);

int a,b;

System.out.println("Enter two numbers ");

a=s.nextInt();

b=s.nextInt();

System.out.println("Numbers before swapping are a = "+a+" b = "+b);

int tmp=a;

a=b;b=tmp;

System.out.println("Numbers after swapping are a = "+a+" b = "+b);

}

}

**Leap year:**

class A1\_8 {

public static void main(String[] arg){

Scanner s = new Scanner(System.in);

System.out.println("Enter year ");

int n=s.nextInt();

if(n%4!=0)

System.out.println(n+" is not leap year");

else{

if(n%100==0 && n%400==0)

System.out.println(n+" is leap year");

else if(n%100==0 && n%400!=0)

System.out.println(n+" is not leap year");

else

System.out.println(n+" is leap year");

}

}

}