**Experiment No 1**

**/\*factorial\*/**

import java.util.Scanner;

class Factorial

{

public static void main(String args[])

{

int n, c, fact = 1;

System.out.println("Enter an integer to calculate it's factorial");

Scanner sc= new Scanner(System.in);

n = sc.nextInt();

if (n < 0)

System.out.println("Number should be non-negative.");

else

{

for (c = 1; c <= n; c++)

fact = fact\*c;

System.out.println("Factorial of "+n+" is = "+fact);

}

}

}

/\*Output

Enter an integer to calculate it's factorial

5

Factorial of 5 is = 120

Enter an integer to calculate it's factorial

-1

Number should be non-negative.

\*/

**Experiment No 1**

Abhishek Vasant Girkar

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/\*fibbonacci series\*/

import java.util.Scanner;

class fib

{

public static void main(String rg[ ])

{

int a,b=1,c=0,n,i=1;

Scanner sc= new Scanner(System.in);

System.out.println("How many number want in fibonacci series?");

n=sc.nextInt();

System.out.printf("Fibonacci serie of first %d number\n",n);

while(i<=n)

{

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

a=b;

b=c;

c=a+b;

i++;

}

}

}

OUTPUT

How many number want in fibonacci series?

10

Fibonacci serie of first 10 number

1. 1 1 2 3 5 8 13 21 34

**Experiment No 1**

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/\*Prime Number\*/

import java.util.Scanner;

class prime

{

public static void main (String args[])

{

int n,i,c=0;

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

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

for(i=2;i<n;i++)

{

if(n%i==0)

c=1;

}

if(c==0)

System.out.println("It is a Prime");

else

System.out.println("It is not a Prime");

}

}

OUTPUT

Enter the number

15

It is not a Prime

**Experiment No 1**

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/\*Armstrong Number\*/

import java.util.Scanner;

class armstrong

{

public static void main( String arg[])

{

int a, temp,r,b=0;

Scanner sc=new Scanner(System.in);

System.out.println("enter the number");

a=sc.nextInt();

temp=a;

while(a>0)

{

r=a%10;

a=a/10;

b=b+(r\*r\*r);

}

if(temp==b)

{

System.out.println("Armstrong Number");

}

else

{

System.out.println("Not ARMSTRONG");

}

}

}

/\*

Output:

C:\Users\abhishek123\Desktop>cd java

C:\Users\abhishek123\Desktop\java>javac armstrong.java

C:\Users\abhishek123\Desktop\java>java armstrong

enter the number

153

Armstrong Number

\*/

**Experiment No 1**

/\*palindrome number\*/

import java.util.Scanner;

class pallindrome

{

public static void main( String arg[])

{

int a, temp,r,b=0;

Scanner sc=new Scanner(System.in);

System.out.println("enter the number");

a=sc.nextInt();

temp=a;

while(a>0)

{

r=a%10;

a=a/10;

b=b\*10+r;

}

if(temp==b)

{

System.out.println("PALLINDROME");

}

else

{

System.out.println("NOT PALLINDROME");

}

}

}

/\*Output

enter the number

121

PALLINDROME

\*/