1. Factorial of a number program:

import java.util.\*;

class Factorial

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int a=sc.nextInt();

int f=1,i;

for(i=1;i<=a;i++)

{

f=f\*i;

}

System.out.println("Factorial of a given number is "+f);

}

}

Output:

5

Factorial of a given number is 120

2. Printing table

import java.util.\*;

class Factorial

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int a=sc.nextInt();

int b;

for(int i=1;i<=12;i++)

{

b=a\*i;

System.out.println(a+"\*"+i+"="+b);

}

}

}

Output:

7\*1=7

7\*2=14

7\*3=21

7\*4=28

7\*5=35

7\*6=42

7\*7=49

7\*8=56

7\*9=63

7\*10=70

7\*11=77

7\*12=84

3. Checking whether a number is even or odd

import java.util.\*;

class Function

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int x=0,y=0,c=0;

while(n!=1)

{

if(n%2==0)

{

x=n/2;

System.out.println(n+" is even so i take half :" + x);

n=x;

c=c+1;

}

else

{

y=3\*n+1;

System.out.println(n+" is odd so i take 3n+1 :" + y);

n=y;

c=c+1;

}

}

System.out.println("There are total "+ c +" steps to reach 1");

}

}

Output:

14 is even so i take half :7

7 is odd so i take 3n+1 :22

22 is even so i take half :11

11 is odd so i take 3n+1 :34

34 is even so i take half :17

17 is odd so i take 3n+1 :52

52 is even so i take half :26

26 is even so i take half :13

13 is odd so i take 3n+1 :40

40 is even so i take half :20

20 is even so i take half :10

10 is even so i take half :5

5 is odd so i take 3n+1 :16

16 is even so i take half :8

8 is even so i take half :4

4 is even so i take half :2

2 is even so i take half :1

There are total 17 steps to reach 1