***1.print 1 to n with difference 1.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.println("enter the Number:");

n=sc.nextInt();

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

{

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

}

}

}

***Output:***

enter the Number:

10

1

2

3

4

5

6

7

8

9

10

***2.print 1 to n with difference 5.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=0;i<=n;i=i+5)

{

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

}

}

}

***Output:***

enter the Number:30

0 5 10 15 20 25 30

***3.print 1 to n with difference 1.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=n;i>=1;i--)

{

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

}

}

}

***Output:***

enter the Number:30

30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

***4.print 1 to 100 with difference 10.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=n;i>=1;i=i-10)

{

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

}

}

}

***Output:***

enter the Number:100

100 90 80 70 60 50 40 30 20 10

***5.Print Even number up to n.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

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

{

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

}

}

}

***Output:***

enter the Number:20

2 4 6 8 10 12 14 16 18 20

***6.print odd number up to n.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=1;i<=n;i=i+2)

{

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

}

}

}

***Output:***

enter the Number:20

1 3 5 7 9 11 13 15 17 19

***7. Print the sum of n number.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,sum=0;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

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

{

sum=sum+i;

}

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

}

}

***Output:***

enter the Number:5

15

***8. sum of even no upto n.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,sum=0;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

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

{

sum=sum+i;

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

}

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

}

}

***Output:***

enter the Number:20

2

4

6

8

10

12

14

16

18

20

sum is: 110

***9.sum of odd number upto n.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,sum=0;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=1;i<=n;i=i+2)

{

sum=sum+i;

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

}

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

}

}

***Output:***

enter the Number:20

1

3

5

7

9

11

13

15

17

19

sum is: 100

***10 . print the sum from x to y number.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,x,y,sum=0;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number values of x and y:");

x=sc.nextInt();

y=sc.nextInt();

if(x<y){

for(i=x;i<=y;i++)

{

sum=sum+i;

}

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

}

else{

for(i=y;i>=x;i--)

{

sum=sum+i;

}

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

}

}

}

***Output:***

enter the Number values of x and y:10

15

sum is: 75

###########\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*##################### 21-june-2024 ################\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*####################

***11. print the multiplication table.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n,i;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

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

{

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

}

}

}

***Output:***

enter the number:

5

5\*1=5

5\*2=10

5\*3=15

5\*4=20

5\*5=25

5\*6=30

5\*7=35

5\*8=40

5\*9=45

5\*10=50

***12.Write a java program for power of given number.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int x,i,n,f1=1;

Scanner sc=new Scanner(System.in);

System.out.println("enter the x and n:");

x=sc.nextInt();

n=sc.nextInt();

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

{

f1=f1\*x;

}

System.out.println( "power :"+f1);

}

}

***Output:***

enter the x and n:

3

4

power :81

***13. Write a java program for factorial of given number.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,f1=1;

Scanner sc=new Scanner(System.in);

System.out.println("enter the n:");

n=sc.nextInt();

for(i=n;i>1;i--)

{

f1=f1\*i;

}

System.out.println( "factorial is :"+f1);

}

}

***Output:***

enter the n:

5

factorial is :120

***14.write a java program to check wether given number is pronic number or not.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,flag=0;

Scanner sc=new Scanner(System.in);

System.out.println("enter the n:");

n=sc.nextInt();

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

{

if(n==(i\*(i+1)))

{

flag=1;

break;

}

}

if(flag==1)

{

System.out.println(n+ " is pronic") ;

}

else{

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

}

}

}

***Output:***

enter the n:

12

12 is pronic

***15.write a java program of to print Multiplication table without using (\*) operator***

import java.util.Scanner;

public class Main

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n1, n2, sum=0;

System.out.print("Enter the first number: ");

n1=sc.nextInt();

System.out.print("Enter the second number: ");

n2=sc.nextInt();

for(int i=1;i<=n1;i++)

{

sum=sum+n2;

}

System.out.println("The multiplication of "+n1+" and "+n2+" is: "+sum);

}

}

***Output:***

Enter the first number: 6

Enter the second number: 7

The multiplication of 6 and 7 is: 42

***16.write program to accept 1 character from user & also accept range(n) from user & diplay next n charater***

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

char ch;int n;

Scanner sc=new Scanner (System.in);

System.out.println("Enter character & range");

ch=sc.next().charAt(0);

n=sc.nextInt();

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

{

System.out.print("\t"+(ch++));

}

}

}

***Output:***

Enter character & range

v

5

v w x y z

***17) Accept 1 no from user & display its factors.***

import java.util.\*;

class Main

{

public static void main(String args[])

{

int i,n,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter 1 number");

n=sc.nextInt();

for(i=1;i<=(n/2);i++)

{

if(n%i==0)

{

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

}

}

}

}

***Output:***

Enter 1 number

10

1 2 5

###################\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 22-june-2024 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*######################

***18.write a java program to check prime number.***

import java.util.\*;

public class Main {

public static void main (String args[]){

int n,i,flag=0;

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

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

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

{

if(n%i==0)

{

flag=1;

break;

}

}

if(flag==0)

{

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

}

else

{

System.out.println(" Not a Prime Number");

}

}

}

***Output:***

Enter n

10

Not a Prime Number

***19. Write a java program of perfect number.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,sum=0,n;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

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

{

if(n%i==0)

sum=sum+i;

}

if(sum==n)

System.out.println(n+ " is perfect number");

else{

System.out.println(n+ " is not perfect number");

}

}

}

***Output:***

enter the number:

6

6 is perfect number

***20. write a java program for find Fibonacci series.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n,f1=0,f2=1,f3;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

if(n<=0)

{

System.out.println("invalid");

}

else if(n==1)

{

System.out.print(" "+f1);

}

else{

System.out.print(f1+ " "+f2);

}

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

{

f3=f1+f2;

System.out.print(" "+f3);

f1=f2;

f2=f3;

}

}

}

***Output:***

enter the number:

10

0 1 1 2 3 5 8 13 21 34

***21.write a java program for find GCD and LCM.***

import java.util.\*;

public class Main {

public static void main (String args[]){

int i, n1, n2,min,lcm,gcd=1;

Scanner sc=new Scanner(System.in);

System.out.println("enter the value of 1 and n2:");

n1=sc.nextInt();

n2=sc.nextInt();

min=(n1>n2)?n2:n1;

for( i=1;i<=min;i++){

if(n1%i==0 && n2%i==0)

gcd=i;

}

System.out.println("GCD is :"+gcd);

lcm=1;

lcm=(n1\*n2)/gcd;

System.out.println("LCM is:" +lcm);

}

}

***Output:***

enter the value of 1 and n2:

19

25

GCD is :1

LCM is:475

***22. Print the even numbers between 500 to 999.***

import java.util.\*;

public class Main {

public static void main (String args[]){

int i, n;

Scanner sc=new Scanner(System.in);

System.out.println("enter the value of n:");

n=sc.nextInt();

for ( i = 500; i <= n; i += 2)

{

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

}

}

}

***Output:***

enter the value of n:

999

500 502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 544 546 548 550 552 554 556 558 560 562 564 566 568 570 572 574 576 578 580 582 584 586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 628 630 632 634 636 638 640 642 644 646 648 650 652 654 656 658 660 662 664 666 668 670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 712 714 716 718 720 722 724 726 728 730 732 734 736 738 740 742 744 746 748 750 752 754 756 758 760 762 764 766 768 770 772 774 776 778 780 782 784 786 788 790 792 794 796 798 800 802 804 806 808 810 812 814 816 818 820 822 824 826 828 830 832 834 836 838 840 842 844 846 848 850 852 854 856 858 860 862 864 866 868 870 872 874 876 878 880 882 884 886 888 890 892 894 896 898 900 902 904 906 908 910 912 914 916 918 920 922 924 926 928 930 932 934 936 938 940 942 944 946 948 950 952 954 956 958 960 962 964 966 968 970 972 974 976 978 980 982 984 986 988 990 992 994 996 998

***23.Display text five times using for loop.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

for(i=0;i<n;i++)

{

System.out.println(" java is ......");

}

}

}

***Output:***

enter the number:

4

java is ......

java is ......

java is ......

java is ......

***24.write a java program for infinite loop.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

for(i=0;i<n;--i)

{

System.out.println(" hello ....");

}

}

}

***Output:***

enter the number:

4

hello ....

hello ....

hello ....

hello ....

hello ....

hello ....

hello ....

.

.

.

***25. print 1 to 500 with difference 50.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=n;i>=1;i=i-50)

{

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

}

}

}

***Output:***

enter the Number:500

500 450 400 350 300 250 200 150 100 50

***26.print the number in reverse order.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

System.out.print("enter the Number:");

n=sc.nextInt();

for(i=n;i>50;i--)

{

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

}

}

}

***Output:***

enter the Number:60

60 59 58 57 56 55 54 53 52 51

***27. write*** ***program to accept 1 character from user & also accept range(n) from user & diplay previous n charater.***

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

char ch;int n;

Scanner sc=new Scanner (System.in);

System.out.println("Enter character & range");

ch=sc.next().charAt(0);

n=sc.nextInt();

for(int i=n;i>0;i--)

{

System.out.print("\t"+(ch--));

}

}

}

***Output:***

Enter character & range

i

5

i h g f e

######################\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 24-june-2024 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*#############################

***1.write a java program for perfect square.***

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n,n1;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

n1=(int) Math.sqrt(n);

if(n1\*n1==n)

{

System.out.println("it is perfect number");

}

else{

System.out.println("it is not perfect number");

}

}

}

***Output:***

enter the number:

81

it is perfect number

***2.print sum=1x=2x+3x+4x……***

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,i,x,sum=0;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

x=sc.nextInt();

for(i=1;i<=n;i+=2)

{

sum+=i\*x;

}

System.out.print(+sum);

}

}

***Output:***

Enter n

5

3

sum is:27

***3.print sum=1x+2x+3x+……***

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,i,x,sum=0;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

x=sc.nextInt();

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

{

sum+=i\*x;

}

System.out.print("sum is:"+sum);

}

}

***Output:***

Enter n

5

3

sum is:45

***4.write a program to print number divisibal by 5 and 7 up 1 to n number.***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the value of n: ");

int n = sc.nextInt();

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

if (i % 5 == 0 && i % 7 == 0) {

System.out.println(i);

}

}

}

}

***Output:***

Enter the value of n: 150

35

70

105

140

***5.print the sum of sum=1+3+5+7…..***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

int i,n,sum=0;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the value of n: ");

n= sc.nextInt();

for (i = 1; i <= n; i=i+2)

{

sum=sum+i;

}

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

}

}

***Output:***

Enter the value of n: 10

sum is:25

***6. print sum=1.0+1.1+1.2+1.3+…….***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of terms: ");

int n = scanner.nextInt();

double sum = 0.0;

for (int i = 0; i < n; i++) {

sum += 1.0 + (i \* 0.1);

}

System.out.println("Sum of the series: " + sum);

}

}

***Output:***

Enter the number of terms: 5

Sum of the series: 6.0

***7.print sum=1/2+3/4+5/6……***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of terms: ");

int n = scanner.nextInt();

double sum = 0.0;

for (int i = 0; i < n; i++) {

int numerator = 1 + 2 \* i;

int denominator = 2 + 2 \* i;

sum += (double) numerator / denominator;

}

System.out.println("Sum of the series: " + sum);

}

}

***Output:***

Enter the number of terms: 3

Sum of the series: 2.0833333333333335

***8.print sum=1+4+9+16……***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

int i,n,sum=0;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of terms: ");

n = scanner.nextInt();

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

{

sum += i \* i;

}

System.out.println("Sum of the series: " + sum);

}

}

***Output:***

Enter the number of terms: 5

Sum of the series: 55

***9.print sum=1+8+27+…….***

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

int i,n,sum=0;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of terms: ");

n = scanner.nextInt();

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

{

sum += i \* i \* i;

}

System.out.println("Sum of the series: " + sum);

}

}

***Output:***

Enter the number of terms: 5

Sum of the series: 225