For Loop:

1. Print 10 time welcome

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

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

{

System.out.println("welcome to programming world");

}

}}

Output:

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

welcome to programming world

1. 1to 15 no.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=1; i<=15; i++)

{

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

}

}}

Output:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1. 1 to 20 even no.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=1; i<=20; i=i+2)

{

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

}

}}

Output:

2 4 6 8 10 12 14 16 18 20

* 1. Odd

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=1; i<=20; i=i+2)

{

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

}

}}

Output:

1 3 5 7 9 11 13 15 17 19

1. 1 to 20

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

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

{

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

}

}}

Output:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1. 100 to 1000 (gap 20)

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=100; i<=1000; i=i+20)

{

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

}

}}

Output:

100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 820 840 860 880 900 920 940 960 980 1000

1. 20 to 1 no .

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=20; i>=1; i--)

{

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

}

}}

Output:

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

1. 1000 to 100 (gap 10)

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i;

Scanner sc=new Scanner(System.in);

for(i=1000; i>=100; i=i-10)

{

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

}

}}

Output:

1000 990 980 970 960 950 940 930 920 910 900 890 880 870 860 850 840 830 820 810 800 790 780 770 760 750 740 730 720 710 700 690 680 670 660 650 640 630 620 610 600 590 580 570 560 550 540 530 520 510 500 490 480 470 460 450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100

1. Sum up to 15

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int i,sum=0;

Scanner sc=new Scanner(System.in);

for(i=1; i<=15; i++)

{

sum=sum+i;

}

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

}

}

Output:

sum=120

1. Sum up to n for even no.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,sum=0,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

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

{

sum=sum+i;

}

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

}

}

Output:

25

sum156

1. Odd no.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,sum=0,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

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

{

sum=sum+i;

}

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

}

}

Output:

10

sum25

1. X to y sum

class Main {

public static void main(String[] args) {

int x,y,sum=0,i;

Scanner sc=new Scanner(System.in);

System.out.println("Enter NO");

x=sc.nextInt();

y=sc.nextInt();

if(x<y)

{

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

{

sum=sum+i;

}

}

else{

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

{

sum=sum+i;

}

}

System.out.println("sum="+sum);

}

}

Output:

Enter NO

12

23

sum=210

1. Accept 1 character and n from uiser

import java.util.\*;

class Main {

public static void main(String[] args) {

char n,ch,i;

Scanner sc=new Scanner(System.in);

System.out.println("enter no");

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

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

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

{

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

}

}

}

OIutput:

enter no

3

2

2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ \_ ` a b c d

1. Accept 1 no. from user and print its factors

import java.util.\*;

class Main {

public static void main(String[] args) {

int n,i;

Scanner sc=new Scanner(System.in);

System.out.println("enter no");

n=sc.nextInt();

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

{

if(n%i==0)

{

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

}

}

}

}

Output:

enter no

12

1

2

3

4

6

1. Pronic no.

import java.util.\*;

class Main {

public static void main(String[] args) {

int n,flag=0,i;

Scanner sc=new Scanner(System.in);

System.out.println("enter no");

n=sc.nextInt();

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

{

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

flag=1;break;

}

}

if(flag==1){

System.out.println("promic");

}

else{

System.out.println("not promic");

}

}

}

Output:

enter no

14

not promic

1. Prime number

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n, flag=0,i;

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 no.");

}

else

{

System.out.println("Not prime no.");

}

}

}

Output:

1000

Not prime no.

1. Perfect no.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n, flag=0, sum=0,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

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

{

if(n%i ==0)

{

sum=sum+i;

}

}

if(sum ==n)

{

System.out.println("perfect no.");

}

else

{

System.out.println("Not perfect no.");

}

}

}

Output:

6

perfect no.

1. Fibonacci series

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

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

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

if(n<=0)

{

System.out.print("Invalid input");

}

else if(n==1)

{

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

}

else

{

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

for(i=3; i<=n; i++)

{

f3=f1+f2;

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

}

//f1=f2;

//f2=f3;

}

}

}

1. Gcd , Lcm

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int a,b,n,gcd=0,lcm,i;

Scanner sc=new Scanner(System.in);

a=sc.nextInt();

b=sc.nextInt();

if(a<b)

{

n=a;

}

else

{

n=b;

}

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

{

if(a%i==0 && b%i==0){

gcd=i;

}

}

lcm=(a\*b)/gcd;

System.out.println("gcd="+gcd);

System.out.println("lcm="+lcm);

}

}

Output:

56

34

gcd=2

lcm=952

1. Sum = 1x+2x+3x+4x+……+nx

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int x,n,sum=0,i;

Scanner sc=new Scanner(System.in);

x=sc.nextInt();

n=sc.nextInt();

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

{

sum=sum+(i\*x);

}

System.out.println("sum="+sum);

}

}

Output:

1

5

sum=15

1. Sum= 1x+3x+5x+7x+……n

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int x,n,sum=0,i;

Scanner sc=new Scanner(System.in);

x=sc.nextInt();

n=sc.nextInt();

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

{

sum=sum+(i\*x);

}

System.out.println("sum="+sum);

}

}

Output:

1

3

sum=9

1. Sum = 1+3+5+7+9

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,sum=0,i;

Scanner sc=new Scanner(System.in);

// x=sc.nextInt();

n=sc.nextInt();

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

{

sum=sum+(i\*n);

}

System.out.println("sum="+sum);

}

}

Output:

6

sum=216

1. Sum= 1+4+9+16+…n

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,sum=0,i;

Scanner sc=new Scanner(System.in);

// x=sc.nextInt();

n=sc.nextInt();

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

{

sum=sum+(i\*i);

}

System.out.println("sum="+sum);

}

}

Output:

3

sum=14

1. 1+9+27+64….n

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,sum=0,i;

Scanner sc=new Scanner(System.in);

// x=sc.nextInt();

n=sc.nextInt();

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

{

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

}

System.out.println("sum="+sum);

}

}

Output:

4

sum=100

1. Sum= 1/3+1/5+1/7+…..

Sum=sum+(1/1);

1. (interview)

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,f1=1,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

f1=sc.nextInt();

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

{

f1=f1\*i;

}

System.out.println("f1="+f1);

}

}

Output:

5

1

f1=120

1. Multiplication

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,f1=1,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

// f1=sc.nextInt();

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

{

f1=n \* i;

System.out.println(n +" \* "+ i + " ="+ f1);

}

}

}

Output:

2

2 \* 1 =2

2 \* 2 =4

2 \* 3 =6

2 \* 4 =8

2 \* 5 =10

2 \* 6 =12

2 \* 7 =14

2 \* 8 =16

2 \* 9 =18

2 \* 10 =20

1. Multiplication table without using \* operator

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int n,f1=1,i;

Scanner sc=new Scanner(System.in);

n=sc.nextInt();

// f1=sc.nextInt();

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

{

f1=f1+n;

System.out.println(n +" \* "+ i + " ="+ f1);

}

}

}

Output:

3

3 \* 1 =4

3 \* 2 =7

3 \* 3 =10

3 \* 4 =13

3 \* 5 =16

3 \* 6 =19

3 \* 7 =22

3 \* 8 =25

3 \* 9 =28

3 \* 10 =31

1. Power

import java.util.\*;

class HelloWorld

{

public static void main(String[] args)

{

Scanner sc=new Scanner (System.in);

int bace,exponent,i,power=1;

System.out.println("enterbace and exponent");

bace=sc.nextInt();

exponent=sc.nextInt();

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

{

power=power\*bace;

}

System.out.println("power="+power);

}

}

Output:

enterbace and exponent

8

5

power=32768

1. Display no. sequentially from 1to 99 with 5 number on each line

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner (System.in);

int count = 0;

for (int i = 1; i <= 99; i++) {

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

count++;

if (count % 5 == 0) {

System.out.println();

}

}

if (count % 5 != 0) {

System.out.println();

}

}

}

Output:

1 2 3 4 5

6 7 8 9 10

11 12 13 14 15

16 17 18 19 20

21 22 23 24 25

26 27 28 29 30

31 32 33 34 35

36 37 38 39 40

41 42 43 44 45

46 47 48 49 50

51 52 53 54 55

56 57 58 59 60

61 62 63 64 65

66 67 68 69 70

71 72 73 74 75

76 77 78 79 80

81 82 83 84 85

86 87 88 89 90

91 92 93 94 95

96 97 98 99

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner (System.in);

System.out.println("Numbers divisible by both 3 and 7 from 1 to 100:");

for (int i = 1; i <= 100; i++) {

if (i % 3 == 0 && i % 7 == 0) {

System.out.println(i);

}

}

}

}

Output:

Numbers divisible by both 3 and 7 from 1 to 100:

21

42

63

84

import java.util.\*;

public class HelloWorld

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int i,n,power=1;

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

n=sc.nextInt();

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

{

power \*=n;

}

System.out.println(" power="+power);

}

}

Output:

Enter number:

5

power=3125