Task\_1

public class Solution1{

public static void main(String[] agrs){

int i=10,j=50;

System.*out*.println("Number Range Printed using for loop");

//number range printed using for loop

for(i=10;i<=50;i++){

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

}

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

//number range printed using while loop

i=10;

System.*out*.println("number range printed using while loop");

while(i<=j){

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

i++;

}

}

}

Output

Number Range Printed using for loop

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

number range printed using while loop

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

Task\_2

import java.util.Scanner;

public class Solution2{

public static void main(String[] agrs){

int givennumber;

// get the value from console

Scanner s=new Scanner(System.*in*);

System.*out*.println("Enter the value");

givennumber=s.nextInt();

System.*out*.println("Given number is " + givennumber);

// using if to find number is negative or positive

if(givennumber<0){

System.*out*.println("Entered value is negative");

}else{

System.*out*.println("Entered value is positive");

}

}

}

Output 1: for positive number

Enter the value

8

Given number is 8

Entered value is positive

Output 2: for negative number

Enter the value

-1

Given number is -1

Entered value is negative

Task\_3

import java.util.Scanner;

public class Solution3{

public static void main(String[] agrs){

Scanner s= new Scanner(System.*in*);

System.*out*.println("enter the value");

int i=s.nextInt();

System.*out*.println("The reverse value of given number");

// usind do whie to reverse the number

do{

int j=i%10; // it will give reminder value

System.*out*.print(j);

j=i/10; // this will give quotient

// swap the quotient to run the loop

int k=j;

i=k;

}while(i>0);

}

}

Output

enter the value

876

The reverse value of given number

678

Task\_4

import java.util.Scanner;

public class Solution4{

public static void main(String[] agrs){

int num1,num2,num3;

Scanner s= new Scanner(System.*in*);

// getting values from console

System.*out*.println("enter the value num1");

num1=s.nextInt();

System.*out*.println("enter the value num2");

num2=s.nextInt();

System.*out*.println("enter the value num3");

num3=s.nextInt();

System.*out*.print("Smallest of three number is ");

// using if else and logical operator to find smallest of 3 values

if(num1<num2&&num1<num3){

System.*out*.print(num1);

}else if(num2<num3){

System.*out*.print(num2);

}else{

System.*out*.print(num3);

}

}

}

Output

enter the value num1

1

enter the value num2

4

enter the value num3

-1

Smallest of three number is -1

Task\_5

import java.util.Scanner;

public class Solution5{

public static void main(String[] agrs){

int purchasevalue=0,netamount=0,flag=0,discount=0;

System.*out*.println("Enter the purchase amount");

Scanner s=new Scanner(System.*in*);

purchasevalue=s.nextInt();

if(purchasevalue<500){

flag=1;

}else if(purchasevalue>=500&&purchasevalue<=1000){

flag=2;

}else if(purchasevalue>1000){

flag=3;

}else{

flag=0;

}

switch(flag){

case 1:

netamount=purchasevalue;

System.*out*.println("Netamount with no discount "+netamount);

break;

case 2:

discount=purchasevalue/100\*10;

netamount=purchasevalue-discount;

System.*out*.println("Netamount with 10% discount "+ netamount);

break;

case 3:

discount=purchasevalue/100\*20;

netamount=purchasevalue-discount;

System.*out*.println("Netamount with 20% discount "+ netamount);

break;

default:

System.*out*.println("no result");

break;

}

}

}

Output 1: Amount <500

Enter the purchase amount

400

Net amount with no discount 400

Output 2: Amount >500 and <1000

Enter the purchase amount

670

Net amount with 10% discount 610

Output 3: Amount >1000

Enter the purchase amount

1200

Netamount with 20% discount 960

Task\_6

import java.util.Scanner;

public class Solution6{

public static void main(String[] agrs){

Scanner s=new Scanner(System.*in*);

int i,j,k=5,n=0,z=5;

for(i=1;i<=k;i++){ //outer for loop to print row wise

n=5;

for(j=1;j<=i;j++){ //first inner loop to print triangle in descending value

System.*out*.print(n);

n--;

}

for(j=k-1;j>=i;j--){ // second inner loop to print triangle with same value

System.*out*.print(z);

}

z--;

System.*out*.println();

}

}

}

Output:

55555

54444

54333

54322

54321