Q1. Write a program to add 8 to the number x and then divide it by 3. Now, the modulus of the quotient is taken with 5 and then multiply the resultant value by 5. Display the final result.

Answer:

    public static void main(String[] args) {

       Scanner obj = new Scanner(System.in);

       int x = obj.nextInt();

       System.out.println((((x+8)/3)%5)\*5);

    }

}

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Q2: Swap the two numbers without using the third variable ?

import java.util.Scanner;

public class q127oct {

    public static void main(String[] args) {

       Scanner obj = new Scanner(System.in);

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

       int x = obj.nextInt();

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

       int y = obj.nextInt();

       System.out.println("Value of x and y before swap=> "+x+" "+y);

       x=x+y;

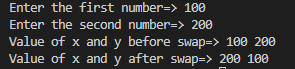
       y=x-y;

       x=x-y;

       System.out.println("Value of x and y after swap=> "+x+" "+y);

    }

}



Q3. Write a program to calculate the sum of the 3 digit number.

Answer:

import java.util.Scanner;

public class q127oct {

    public static void main(String[] args) {

     Scanner obj = new Scanner(System.in);

     System.out.print("Wneter the number you wants to calculate the sum of it's digits => ");

     int num = obj.nextInt(),dino,sum=0;

     while(num!=0)

     {

        dino=num%10;

        sum=sum+dino;

        num = num/10;

     }

     System.out.println("Sum of the digits is=>"+sum);

    }

}



Q4. Assign values of variables ‘a’ and ‘b’ as 55 and 70 respectively and the check it.

I) both the conditions a<50 and a<b are true.

ii)at least one of the conditions a<50 or a<b is true.

import java.util.Scanner;

public class q127oct {

    public static void main(String[] args) {

        int a= 55;

        int b= 70;

        System.out.println(a<50 && a<b);

        System.out.println(a<50 || a<b);

    }

}

false

true

Q5: Find the total number of bits and needed to be flipped to convert x to y.

import java.util.Scanner;

public class q127oct {

    public static void main(String[] args) {

       Scanner obj = new Scanner(System.in);

       int x= obj.nextInt();

       int y = obj.nextInt(),count=0;

       int n = x ^ y;

       while (n!=0)

       {

            n=n&(n-1);

            count++;

       }

       System.out.println(count);

    }

}

65 80

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