Methods

**Question 1:**

Report

**Marks: +10-0**

**Description:**

Write a program to check whether the given number is Palindrome or not by using methods.

**Constraints:**

**Input :**  First Line consists of One Integer Value.

**Output :**  Print whether the given number is palindrome or not.

**Constraints :**  If the given value is lessthan 0 then convert into positive value.

**Example:**

Input 1 :    171

Output 1 :    The given number is Palindrome.

Input 2 :    250

Output 2 :    The given number is not a PalinDrome.

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[] args)

{

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

n=Math.abs(n);

if(palindrome(n)){

System.out.print("The given number is Palindrome.");

}

else

{

System.out.print("The given number is not a PalinDrome.");

}

}

static boolean palindrome(int n)

{

int temp=n;

int rev=0;

while(n!=0)

{

rev=rev\*10+n%10;

n=n/10;

}

return rev==temp;

}

}

**Question 2:**

Report

**Marks: +10-0**

**Description:**

Write a program to Print the Factorial of a number by using method.

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists one Integer value.

**Output :**  Print the Factorial of the number.

**Constraints :**  If the given value is lessthan 0 then convert into positive value.

**Example:**

**Input 1 :**    6

**Output 1 :**    720

**Input 2 :**    0

**Output 2 :**    1

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

*//Donot change anything in main method.*

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

Main obj = new Main();

obj.factorial(n);

}

void factorial(int n)

{

n=Math.abs(n);

int fact=1;

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

{

fact=fact\*i;

}

System.out.print(fact);

}

}

**Question 3:**

Report

**Marks: +10-0**

**Description:**

Write a program to print first n numbers in Fibonacci series by using Methods ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of **Input 1**(integer n).

**Output :**  Print the first n fibonacci series.

**Constraints :**  If the given value is lessthan Zero then convert into positive value.

If the given value is equal to zero Print **"Invalid InPut"**.

**Example:**

**Input 1 :**10

**Output 1 :**0, 1, 1, 2, 3, 5, 8, 13, 21, 34.

**Input 2 :**16

**Output 2 :**  0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610.

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

fibonacci(n);

}

static void fibonacci(int n)

{

if(n<0)

{

n=-n;

}

if(n==0)

{

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

}

else{

int a=0,b=1;

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

{

System.out.print(a);

if(i!=n)

System.out.print(", ");

else

System.out.print(".");

int c=a+b;

a=b;

b=c;

}

}

}

}

**Question 4:**

Report

**Marks: +10-0**

**Description:**

Write a program to reverse a number by using Methods ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of One Integer Value.

**Output :**  Print the Reverse of the number.

**Constraints :**  If the given value is lessthan 0 then convert into positive value.

**Example:**

**Input 1 :**    6969

**Output 1 :**    9696

**Input 2 :**    250

**Output 2 :**    52

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main

{

public static void main(String[]args)

{

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

n=Math.abs(n);

System.out.print(reverse(n));

}

static int reverse(int n)

{

int rev=0;

int t=n;

while(t!=0)

{

rev=rev\*10+t%10;

t=t/10;

}

return rev;

}

}

**Question 5:**

Report

**Marks: +10-0**

**Description:**

Write a program to check whether the given number is **Armstrong** or not by using methods.

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

Input :  First Line consists of Input 1(integer n).

Output :  Print whether the given number is **Armstrong or not**.

Constraints :  The give value must be greater than 0 or else print **"Invalid Input."**.

**Example:**

Input 1 :    153

Output 1 :    The given number is Armstrong.

Input 2 :    250

Output 2 :    The given number is not an Armstrong.

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

armstrong(n);

}

public static void armstrong(int k)

{

if(k<=0){

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

}

else

{

int a=k;

int d=noOfDigits(k);

int sum=0;

while(k>0)

{

int r=k%10;

sum+=Math.pow(r,d);

k=k/10;

}

if(sum==a)

{

System.out.print("The given number is Armstrong.");

}

else{

System.out.print("The given number is not an Armstrong.");

}

}

}

public static int noOfDigits(int num)

{

int count=0;

while(num>0)

{

count++;

num=num/10;

}

return count;

}

}

**Question 6:**

Report

**Marks: +10-0**

**Description:**

Write a program to print the Given Name(String) for n number of times by using Method ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**First Line consists of **Input 1**(integer n).

**Output :**Print the given String n number of times.

**Constraints :**If the given n value is lessthan or equal to zero Print **"Invalid Input"**.

**Example:**

**Input 1 :**10

**Output 1 :**

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

cvcorp

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

display(n);

}

public static void display(int n)

{

if(n<=0)

{

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

}

else{

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

{

System.out.println("cvcorp");

}

}

}

}

**Question 7:**

Report

**Marks: +10-0**

**Description:**

Write a program to print the Alternative odd numbers by using Method between the Given Numbers ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of **Input 1**(integer n1).

             Second Line consists of **Input 2**(integer n2).

**Output :**  Print the alternative numbers between the given numbers.

**Constraints :**  If the given n1 and n2 value is lessthan convert them to **Positive values**.

If there are no odd numbers between the given n1 and n2, Print**"No Odd Numbers Between them"**

If the given n1 value is only equal to zero, Print **"First Input is Zero"**.

If the given n2 value is only equal to zero, Print **"Second Input is Zero"**.

If both the n1 and n2 values are equal to zero, Print **"Both Inputs are Zero"**.

**Example:**

**Input 1 :**1   19

**Output 1 :**3, 7, 11, 15.

**Input 2 :**0   0

**Output 2 :**Both Inputs are Zero

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

Scanner obj = new Scanner(System.in);

int n1=obj.nextInt();

int n2=obj.nextInt();

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

{

System.out.print("Both Inputs are Zero");

}

else if(n1==0)

{

System.out.print("First Input is Zero");

}

else if(n2==0)

{

System.out.print("Second Input is Zero");

}

else

{

if(n1<0)

{

n1=-n1;

}

if(n2<0)

{

n2=-n2;

}

if(n1>n2)

{

n1=n1+n2-(n2=n1);

}

int c=0;

int p=0;

for(int i=n1+1;i<n2;i++)

{

if(isOdd(i))

{

if(c%2==0)

{

p++;

if(p==1)

{

System.out.print(i);

}

else

{

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

}

}

c++;

}

}

if(p>0)

{

System.out.print(".");

}

else

{

System.out.print("No Odd Numbers Between them");

}

}

}

static boolean isOdd(int n){

*//Donot change anything in this code.*

if(n%2!=0)

return true;

else

return false;

}

}

**Question 8:**

Report

**Marks: +10-0**

**Description:**

Write a program to check whether the given number is prime number or not by using Methods ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of **Input 1**(integer n).

**Output :**  check whether the given number is prime or not.

**Constraints :**  If the given n value is lessthan or equal to zero Print **"Invalid Input."**.

**Example:**

**Input 1 :**    23

**Output 1 :** 23 is Prime Number.

**Input 2 :**16

**Output 2 :**  16 is Not a Prime Number.

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]arg){

*//Donot change anything in main method.*

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

isPrime(n);

}

static void isPrime(int a)

{

if(a<=0)

{

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

}

else{

int fc=0;

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

{

if(a%i==0)

{

fc++;

}

}

if(fc==2)

{

System.out.print(a+" is Prime Number.");

}

else{

System.out.print(a+" is Not a Prime Number.");

}

}

}

}

**Question 9:**

Report

**Marks: +10-0**

**Description:**

Write a program to print the sum of the first n natural Numbers by using Method ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of only One Integer.

**Output :**  Print the sum of First n Natural numbers.

**Constraints :**  If the given value is lessthan or equal to zero Print **"Invalid Input"**.

**Example:**

**Input 1 :**10

**Output 1 :**55

**Input 2 :**   -3

**Output 2 :**   Invalid Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[]args){

*//Donot change anything in main class.*

Scanner obj = new Scanner(System.in);

int n = obj.nextInt();

int k=sumOfNaturalNo(n);

if(k>0)

{

System.out.print(k);

}

else

{

System.out.println("Invalid Input");

}

}

static int sumOfNaturalNo(int n){

int a=0;

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

{

a=n\*(n+1)/2;

} return a;

}

}

**Question 10:**

Report

**Marks: +10-0**

**Description:**

Write a program to print the even numbers by using Method between the Given Numbers ?

Please make sure that code must be in this format

Do not change the code block

**Constraints:**

**Input :**  First Line consists of One Integer Value.

             Second Line consists of One More Integer Value.

**Output :**  Print the even numbers between the given numbers separated by commas (,).

**Constraints :**  If the given values is lessthan or equal to zero Print **"Invalid Inputs"**.

                       If the First value of the Input is only lessthan or equal to zero then Print **"Invalid First Input"**.

                       If the Second value of the Input is only lessthan or equal to zero then Print **"Invalid Second Input"**.

**Example:**

**Input 1 :** 1   20

**Output 1 :** 2, 4, 6, 8, 10, 12, 14, 16, 18.

**Input 2 :**1    -6

**Output 2 :**Invalid Second Input

**Explanation:**

NA

**Your Code: java**

import java.util.Scanner;

class Main{

public static void main(String[] args){

Scanner obj = new Scanner(System.in);

int a=obj.nextInt();

int b=obj.nextInt();

if(a<=0 && b<=0)

{

System.out.println("Invalid Inputs");

}

else if(a<=0){

System.out.println("Invalid First Input");

}

else if(b<=0)

{

System.out.println("Invalid Second Input");

}

else{

boolean p=true;

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

{

if(isEven(i))

{

if(!p)

{

System.out.print(", ");

}

System.out.print(i);

p=false;

}

}

System.out.print(".");

}

}

static boolean isEven(int n)

{

if(n%2==0)

{

return true;

}

else{

return false;

}

}

}