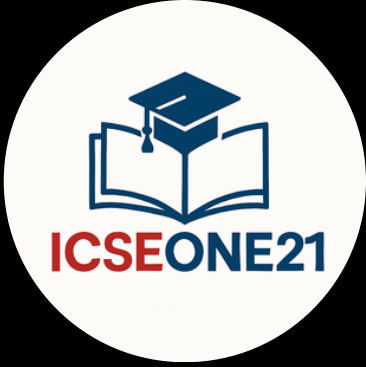


HW

W.A.P with the help of the given function to calculate and print the value of s where $s = 1/1! + 2/2! + \dots + 10/10!$

long fact (int x) : The function accepts an integer value and returns it's factorial

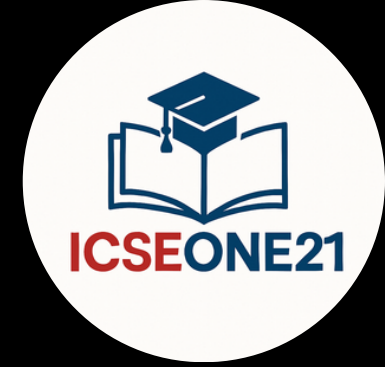


```
class Series
{
    long fact (int x)
    {
        long f = 1;
        for (int i = 1; i <= x; i++)
        {
            f = f * i;
        }
        return f;
    }
    public static void main (String args[])
    {
        Series ob = new Series();
        double s = 0.0;
```

```
        for (int i = 1; i <= 10; i++)
        {
            s = s + i * 1.0 / ob.fact(i);
        }
        System.out.println ("sum of series = " + s);
    }
}
```

Class

W.A.P with the help of a given function to check if a pair of numbers are twin prime or not.
A pair of number is said to be twin prime if both of them are prime and their difference is 2.
E.g. 11 and 13



int prime (int x): accepts an integer value and returns 1 if the no. is prime else 0.

Answer ⇒

```
class Prime
{
    int prime (int x)
    {
        int c = 0;
        for (int i=1;i<=x;i++)
        {
            if(x%i==0)
                c++;
        }

        if(c==2)
            return 1;
        else
            return 0;
    }

    public static void main (String args[])
    {
        Prime ob = new Prime();
        if(ob.prime(11)==1 && ob.prime(13)==1)
        {
            if(Math.abs(11-13)==2)
                Sopln(11 + "and " + 13 + "are twin prime");
        }
    }
}
```

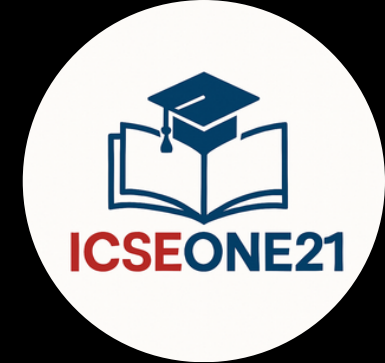
HW

W.A.P to accept a number and check if the no. is Emrip no. or not. A number is called Emrip if the original and the reverse of the number both are prime. Eg: 13, etc..

int rev (int x): returns the reverse of a number

boolean prime (int x): returns true for the prime and false for composite number.

Also write the main method to input a number and check if it is Emrip or not using above functions.



Homework $\Rightarrow$ Do the Question
marked as H/W

Thank You!