11W

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

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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 ⇒ Do the Question marked as H/W

Thank You!

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