Started on	Wednesday, 13 March 2024, 11:03 AM
State	Finished
Completed on	Monday, 18 March 2024, 11:04 AM
Time taken	5 days
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	SNEHA S 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Write a program to return the nth number in the fibonacci series.

The value of N will be passed to the program as input.

NOTE: Fibonacci series looks like –

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, . . . and so on.

i.e. Fibonacci series starts with 0 and 1, and continues generating the next number as the sum of the previous two numbers.

• first Fibonacci number is 0,

• second Fibonacci number is 1,

• third Fibonacci number is 1,

• fourth Fibonacci number is 2,

• fifth Fibonacci number is 3,

• sixth Fibonacci number is 5,

• seventh Fibonacci number is 8, and so on.

For example:

Input:

7

Output

8

For example:

Input	Result
8	13

Answer: (penalty regime: 0 %)

```
n=int(input())
a=0
b=1
c=0
if(n==0):

    print(0)
else:
    for i in range(2,n):
        c=a+b
        a=b
        b=c
    print(b)
```

	Input	Expected	Got	
✔	4	2	2	✔

	Input	Expected	Got	
✔	8	13	13	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Write a program to check whether a given number is a perfect number or not.

Perfect number is a positive number which sum of all positive divisors excluding that number is equal to that number.

For example, 6 is perfect number since divisor of 6 are 1, 2 and 3.

Sum of its divisor is 1 + 2+ 3 = 6

Sample Test Cases

Test Case 1

Input

6

Output

YES

Test Case 2

45

Output

NO

For example:

Input	Result
6	YES

Answer: (penalty regime: 0 %)

```
a=int(input())
b=0
for i in range(1,a):
    if(a%i==0):
        b=b+i
if(b==a):
    print("YES")
else:
    print("NO")
```

	Input	Expected	Got	
✔	6	YES	YES	✔

	Input	Expected	Got	
✔	45	NO	NO	✔
✔	496	YES	YES	✔
✔	123	NO	NO	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Write a program to find the sum of the series 1 +11 + 111 + 1111 + . . . + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

4

Output

1234

Explanation:

```
as input is 4, have to take 4 terms.
```

```
1 + 11 + 111 + 1111
```

Test Case 2

Input

6

Output

123456

For example:

Input	Result
3	123

Answer: (penalty regime: 0 %)

```
n=int(input())
sum=0
j=1
for i in range(1,n+1):
    sum=sum+j
    j=(j*10)+1
print(sum)
```

	Input	Expected	Got	
✔	1	1	1	✔
✔	3	123	123	✔

	Input	Expected	Got	
✔	4	1234	1234	✔
✔	7	1234567	1234567	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

In this exercise you will create a program that computes the average of a collection of values entered by the user. The user will enter 0 as a sentinel value to indicate that no further values will be provided. Your program should display an appropriate error message if the first value entered by the user is 0.

Hint: Because the 0 marks the end of the input it should not be included in the average.

Sample Input

1

2

3

4

5

0

The average is 3.0.

Answer: (penalty regime: 0 %)

```
i=1
sum=0
c=0
while(i!=0):
    i=int(input())
    sum+=i
    c+=1
if c==1:
    print("input nos")
else:
    avg=sum/(c-1)
    avg=float('{:.1f}'.format(avg))
    print("The average is {}.".format(avg))

'''i=1
sum=0
c=0
while(i!=0):
    i=int(input())
    sum+=i
    c+=1
print("The average is {}".format(sum/c))'''
```

	Input	Expected	Got	
✔	1 2 3 4 5 0	The average is 3.0.	The average is 3.0.	✔
✔	11 22 33 44 55 0	The average is 33.0.	The average is 33.0.	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Write a program that reads a positive integer, n, from the user and then displays the sum of all of the integers from 1 to n.

Sample Input

10

Sample Output

The sum of the first 10 positive integers is 55.0

For example:

Input	Result
10	The sum of the first 10 positive integers is 55.0

Answer: (penalty regime: 0 %)

```
n=int(input())
sum=0
for i in range(1,n+1):
    sum+=i
print("The sum of the first {} positive integers is {}".format(n,float(sum)))
```

	Input	Expected	Got	
✔	10	The sum of the first 10 positive integers is 55.0	The sum of the first 10 positive integers is 55.0	✔
✔	20	The sum of the first 20 positive integers is 210.0	The sum of the first 20 positive integers is 210.0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Week-04_MCQ

Jump to...

WEEK-04-Extra ►