Week 3 : Assignment 1	
Your last recorded submission was on 2023-02-11, 19:39 IST	Due date: 2023-02-15, 23:59 IST.
1) is the method to insert an item into a specified position in a list.	1 point
○ Push ○ Write ● Insert ○ All of the above	
Which method returns the number of occurrences of an element in a list.	1 point
<ul><li>Number of</li><li>Total</li><li>Count</li><li>Length</li></ul>	
The function random.randint(1,100) in python generates.	1 point
<ul> <li>A random integer between 1 to 100 with 1 and 100 both inclusive</li> <li>A random integer between 1 to 100 with 1 and 100 both exclusive</li> <li>A random integer between 1 to 100 with only 100 inclusive</li> <li>None of the above</li> </ul>	
4) The method open("file1.txt", r+) opens the file file1.txt in	1 point
<ul> <li>Read only mode</li> <li>Write only mode</li> <li>Read Write mode</li> <li>None of the above</li> </ul>	
5) Consider the list L= [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]. What will be the output of the st	atement L [3:6]? 1 point
<ul><li>[2, 3, 5]</li><li>[0, 1, 1]</li><li>[1, 2, 3]</li><li>○ none</li></ul>	
6) What is the output of this code?	1 point
1	

```
7) What is the output of the following code?
        def foo(l):
    a = l[0]
    for i in l:
        if i < a:</pre>
        print(foo([2, 3, 5, 1, 7, 6]))
 1
                                                                                                        1 point
 8) What is the output of the following code?
                                                                                                        1 point
        return False
left += 1
                       right -= 1
             return True
       print(bar("telugu"))
print(bar("malayalam"))
   False True
   O True False
   O True True
   O False False
 9) Explain what the output will be when the code given below is executed.
                                                                                                        1 point
  O The program throws an error
   05
  O 5.5
   04.5
 10) Which among the following statements is True with respect to the code given below?
                                                                                                        1 point
     count = 0
    for i in range(10):
    for j in range(5):
        count += i *j
5 print(count)
   O count=50
   O The following code throws up an error.
   O count=550
You may submit any number of times before the due date. The final submission will be considered for grading.
Submit Answers
```

# Programming Assignment 1:

Take an input N as an integer and write a program to display a right angle triangle with N rows and N columns.

```
Input
5
```

#### Output

```
1 *
2 * *
3 * * *
4 * * * *
5 * * * * *
```

### Code:

```
n = int(input())
for i in range(1, n+1):
    for j in range(i):
        print("*", end =" ")
    print()
```

### Programming Assignment 2:

Write a program to take an input N and print Fibonacci sequence till N terms.

The Fibonacci sequence is a set of integers (the Fibonacci numbers) that starts with a zero, followed by a one, then by another one, and then by a series of steadily increasing numbers. The sequence follows the rule that each number is equal to the sum of the preceding two numbers.

```
Input
7
Output
0
1
1
2
3
5
```



#### Code:

```
n = int(input())

n1, n2 = 0, 1
count = 0

if n == 1:
   print(n1)

else:
   while count < n:
       print(n1)
       nth = n1 + n2
       # update values
       n1 = n2
       n2       n2 = nth
       count += 1</pre>
```

# Programming Assignment 3:

Take base B and height H as an input and write a program to print a parallelogram.

#### Code:

```
m = int(input())
n = int(input())

for i in range(1, n+1):
    for j in range(1,m+1):
        print("*", end ="")
    if i!=n:
        print()
```