

classFirstPythonProject - C:\Users\SanioLuke\Documents\Amal Jyothi College\Practicals\Python Programming\09-12-2021\lab_cycle_3.py

C:\Users\SanioLuke\Documents\Amal Jyothi College\Practicals\Python Programming\09-12-2021\lab_cycle_3.py

lab_cycle_3.py

Run: lab_cycle_3

C:\Users\SanioLuke\PycharmProjects\classFirstPythonProject\venv\Scripts\python.exe "C:/Users/SanioLuke/Documents/Amal Jyothi College/Practicals/Python Programming/09-12-2021/lab_cyc

```
***** 1st Question *****  
  
Program to find the factorial of a number.  
Enter the factorial Number : 4  
The factorial number the number (4) is : 24  
  
***** 2nd Question *****  
  
Generate Fibonacci series of N terms.  
Enter the N term for Fibonacci series (Please enter a number greater than 2 !!) : 15  
The fibonaaci series of N=15 numbers is : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377,  
  
***** 3rd Question *****  
  
Find the sum of all items in a list.  
The list is : [21, 25, 53, 1, 156, 9, 87, 10]  
The sum of all items in the list is : 362  
  
***** 4th Question *****  
  
Write lambda functions to find area of square, rectangle and triangle.  
Area of Square  
Enter the length of a side of a square : 10
```

Run TODO Problems Terminal Python Packages Python Console

130:1 LF UTF-8 4 spaces Python 3.9 (classFirstPythonProject)

06:42 PM 19-12-2021

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```
***** 4th Question *****  
  
Write lambda functions to find area of square, rectangle and triangle.  
Area of Square  
Enter the length of a side of a square : 10  
Area of a square with side length=10.0 is 100.0 sqm  
  
Area of Rectangle  
Enter the length : 5  
Enter the breadth : 6  
Area of a rectangle with side length=5.0 & breadth=6.0 is 30.0 sqm  
  
Area of triangle.  
Enter the length : 3  
Enter the breadth : 2  
Area of a triangle with side length=3.0 & breadth=2.0 is 3.0 sqm  
  
***** 5th Question *****  
  
Generate all factors of a number.  
Enter the number to find the factor : 20  
The factors of the given number (20) are : 1, 2, 4, 5, 10, 20,  
  
***** 6th Question *****
```

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130:1 LF UTF-8 4 spaces Python 3.9 (classFirstPythonProject)

06:42 PM 19-12-2021

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```
***** 6th Question *****  
  
Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square.  
Enter the lower limit : 2000  
Enter the higher limit : 2500  
The numbers which are perfect square within the given limits are :  
2025, 2116, 2209, 2304, 2401, 2500,  
  
***** 7th Question *****  
  
Accept a list of words and return length of longest word.  
Enter the size for the word list : 5  
Enter the list of words :  
Player  
Jam  
Fibonaaci  
Den  
Oxford  
The length of the longest word in the list is : 9  
  
***** 8th Question *****  
  
Count the number of characters (character frequency) in a string.  
Enter the string : Santacruz station  
Character frequency of "s" is : 2  
Character frequency of "a" is : 3  
Character frequency of "n" is : 2
```

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06:42 PM 19-12-2021

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```
***** 8th Question *****

Count the number of characters (character frequency) in a string.
Enter the string : Santacruz station
Character frequency of "s" is : 2
Character frequency of "a" is : 3
Character frequency of "n" is : 2
Character frequency of "t" is : 3
Character frequency of "c" is : 1
Character frequency of "r" is : 1
Character frequency of "u" is : 1
Character frequency of "z" is : 1
Character frequency of "i" is : 1
Character frequency of "o" is : 1

***** 9th Question *****

Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'
Enter the string : Brushing
The modified string accordingly is : Brushingly

***** 10th Question *****

Display the given pyramid with step number accepted from user.
Enter the limit : 6
1
```

Run TODO Problems Terminal Python Packages Python Console

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06:42 PM 19-12-2021

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C: > Users > SanioLuke > Documents > Amal Jyothi College > Practicals > Python Programming > 09-12-2021 > lab_cycle_3.py

lab_cycle_3.py

Run: lab_cycle_3

```
***** 10th Question *****  
  
Display the given pyramid with step number accepted from user.  
Enter the limit : 6  
1  
2 4  
3 6 9  
4 8 12 16  
5 10 15 20 25  
6 12 18 24 30 36  
  
***** 11th Question *****  
  
Construct following pattern using nested loop.  
The constructed pattern is :  
  
*  
* *  
* * *  
* * * *  
* * *  
* *  
*  
  
Process finished with exit code 0  
|
```

Run TODO Problems Terminal Python Packages Python Console Event Log

130:1 LF UTF-8 4 spaces Python 3.9 (classFirstPythonProject)

06:42 PM 19-12-2021

PyCharm IDE interface showing a Python project named `classFirstPythonProject` located at `C:\Users\SanioLuke\Documents\Amal Jyothi College\Practicals\Python Programming\09-12-2021\lab_cycle_3.py`.

The editor displays the following code snippet:

```
218
219 # 9. Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'.
220 ques09()
221
222 # 10. Display the given pyramid with step number accepted from user.
223 # ques10()
224
225 # 11. Construct following pattern using nested loop.
```

The Run console shows the execution output for the 9th question:

```
***** 9th Question *****

Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'
Enter the string : dashing
The modified string accordingly is : dashingly

Process finished with exit code 0
```

The bottom status bar indicates the file encoding is UTF-8, 4 spaces indentation, and Python 3.9 (classFirstPythonProject) is the interpreter used. The system clock shows 06:44 PM on 19-12-2021.