

Laboratory Assignment 3

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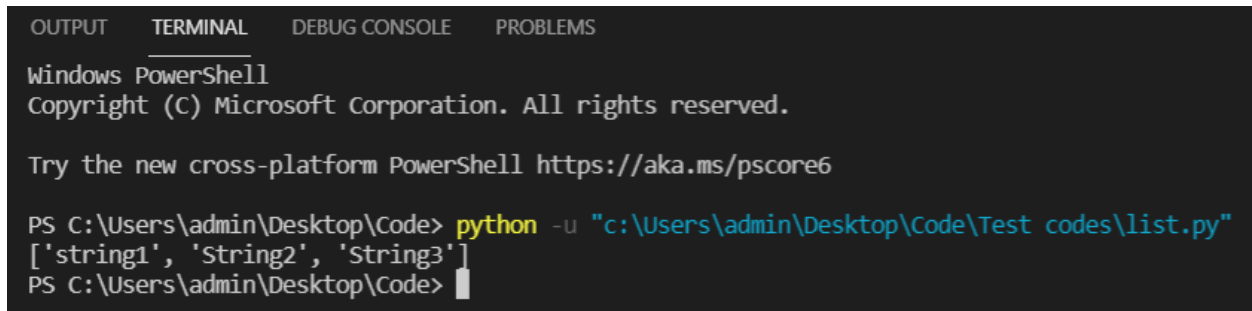
Course/Section: COE/A11

Professor: Kenneth Kim Castro

1. List - list in python are used to store multiple items in a single variable, it's a data type that stores collections of data.

Example: `list = ["string1", "String2", "String3"]` And you can print this list using `print(list)`. I remember calling it arrays when I was in shs.

Output:




```
OUTPUT  TERMINAL  DEBUG CONSOLE  PROBLEMS
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\admin\Desktop\Code> python -u "c:\Users\admin\Desktop\Code\Test codes\list.py"
['string1', 'String2', 'String3']
PS C:\Users\admin\Desktop\Code>
```

2. Functions - A function is a block of organized, reusable code that is used to perform a single, related action. Functions provide better modularity for your application and a high degree of code reusing.

Example:



```
1 def function():
2     | print("string")
3
4 function()
5
```

You can use the program again using `function()`

Output: `string`

3. A module is a file containing Python definitions and statements. A module can define functions, classes, and variables. A module can also include runnable code. Grouping related code into a module makes the code easier to understand and use. It also makes the code logically organized.

Example:

```
1  def add(x, y):  
2      return (x+y)  
3  
4  def subtract(x, y):  
5      return (x-y)
```

```
1  import calc  
2  
3  print(add(5, 5))  
4  print(subtract(5, 5))  
5
```

Output:

```
10  
0
```