

**Question-1 [10 points]: What does “while True” mean in python programming?**

The while true statement is usually used in collaboration with a break statement. If the statement is set to while true then the program will repeat indefinitely until the statement returned no longer is true.

While true: --

    If ---

        Break

**Question-2 [5 points] (Research Question): What is range() in python? Explain with examples.**

range () is used to create a sequence of numbers. This can be used to specify a sequence of numbers and set a limit or numbers to include. When it comes to loops it is used to specify how many times it should iterate or repeat.

range(start, stop, step) is the three things you can set for the sequence to interpret.

```
for i in range(1, 8, 2):
```

```
    print(i)
```

```
1,3, 5,7
```

This will start at #1 skip number #2 then end at #8.

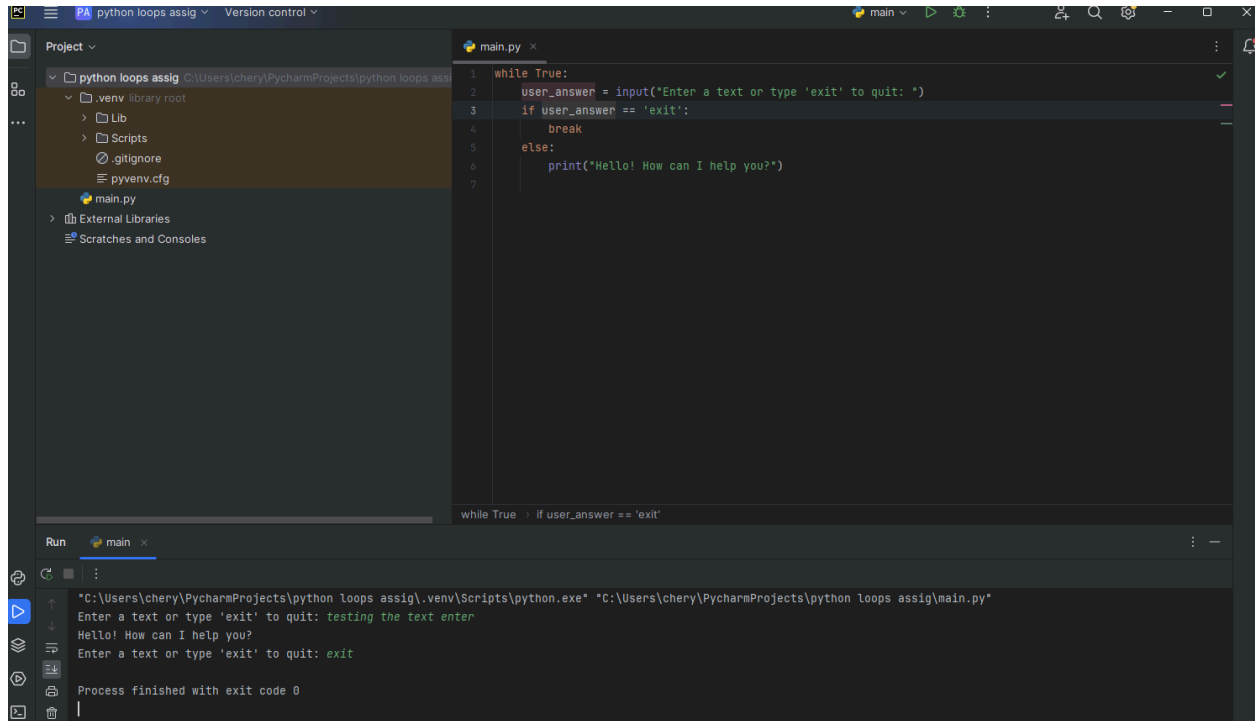
**Question-3 [5 points]: What is Pyfiglet module in python? [NOTE: You may use internet / online resources to research this question]**

Pyfiglet allows you to create banners/art in ASCII in a Python program. This takes the ascii text and will render it within the python program as a readable text.

**Question-4 [20 points]: Write a python program to take any text or string input value (using input()) for a variable, for example “user\_answer”.**

- If the entered input value for the variable user\_answer is any text other than “Exit”, then it should print some greeting message of your choice.
- Continue the above steps using loop until the user types “exit” as input value for the variable user\_answer.

[HINT: You may refer to slide#34 in Loops in Python (updated).pdf, in canvas Module]



**Question-5 [10 points] Using Write the following code in python editor and explain each line (using comments) as well as the output of the function.**

```
def sum_two_numbers(a, b):
```

```
    return a + b
```

```
result = sum_two_numbers(5, 6)
```

```
print(result)
```

**(Please submit the screenshot for your script and its output)**

