

Question 1- a." What are the different data types available in python?"  
b."What is difference between a string and a list in python?"

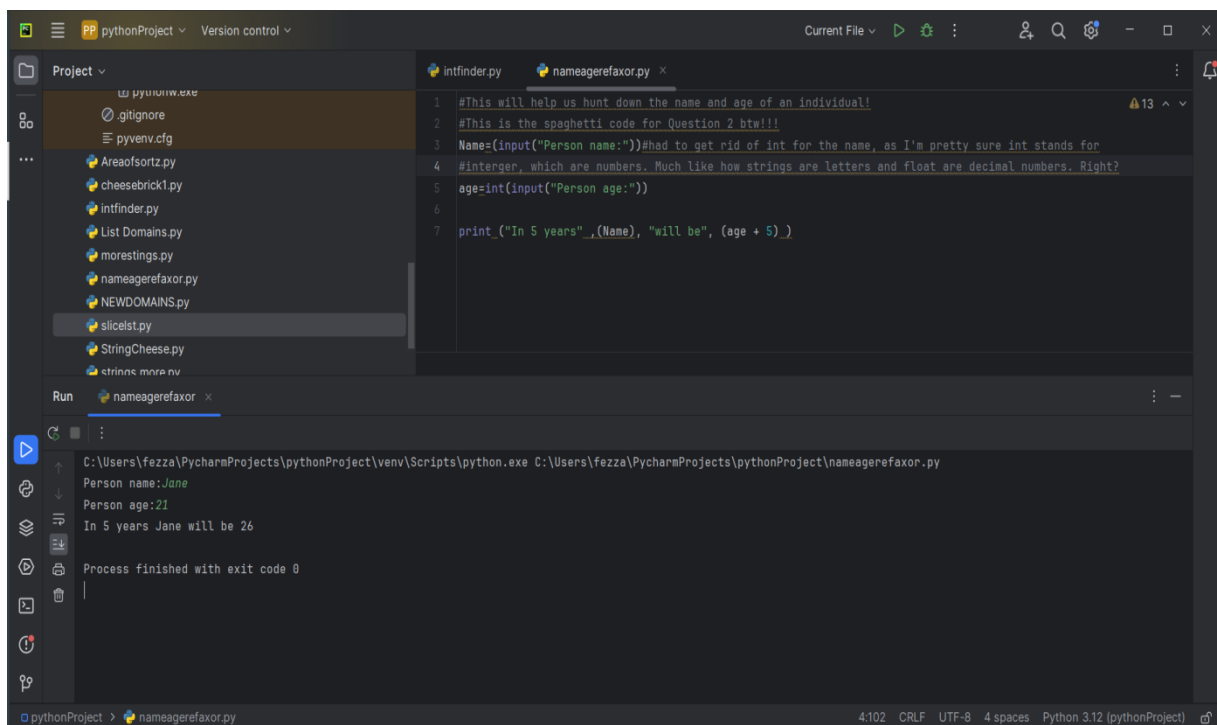
A-The primary data types are Strings and Lists

B-Strings are often the length of characters with unchanging definitions once defined, they can be edited one at a time within the brackets. Lists in contrast can be any type of text or number. A list can be added upon once created and numerical values are assigned to designate positions. Items that can be a part of a list can include strings, integers, floats, and even lists within the list.

Question (2) (30 points)

"Write a program in python to achieve the following tasks:

Type two statements. The first reads user input into person\_name. The second reads user input into person\_age. Use the int() function to convert person\_age into an integer. Print your input variables."



The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure with files like `Areaofsortz.py`, `cheesebrick1.py`, `intfinder.py`, `List Domains.py`, `morestings.py`, `nameagerefaxor.py`, `NEWDOMAINS.py`, `slicelst.py`, `StringCheese.py`, and `strings more nv`. The main editor window shows the code for `nameagerefaxor.py`:

```
1 #This will help us hunt down the name and age of an individual!  
2 #This is the spaghetti code for Question 2 btw!!!  
3 Name=(input("Person name:"))#had to get rid of int for the name, as I'm pretty sure int stands for  
4 #integer, which are numbers. Much like how strings are letters and float are decimal numbers. Right?  
5 age=int(input("Person age:"))  
6  
7 print("In 5 years", (Name), "will be", (age + 5).)
```

The bottom panel shows the output of the program:

```
C:\Users\fezza\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\fezza\PycharmProjects\pythonProject\nameagerefaxor.py  
Person name:Jane  
Person age:21  
In 5 years Jane will be 26  
Process finished with exit code 0
```

The status bar at the bottom indicates the file encoding is UTF-8, line length is 4:102, and the Python version is 3.12 (pythonProject).