QUEENSBOROUGH COMMUNITY COLLEGE
The City University of New York
Department of Engineering Technology

Programming Exercises – Strings

1. Use variable to display first 3 characters of **your** first name by using the character *. Save your code as *PE2_1.py*.

    ```
    Example Output
    ```


2. Display the following triangle by using **repetition** of " " and "*" . Save your code as *PE2_2.py*.

    ```
    Example Output

            *
           ***
          *****
         *******
        *********
       ***********
      *************
     ***************
    ```

3. Write **one** line of code for each step a - h. Save your code as *PE2_3.py*.
    All string text values should be lower case. Use string methods to change cases.
    a) Create variables *greet* and store "welcome to a new semester!" into *greet*.
    b) Display *greet* with string method, *capitalize()*.
    c) Create variables *first*, *last* and use **multiple assignment** to store your first name in *first* and last name in *last*.
    d) Use **concatenation** to store the data from first and last separated by a space into *name*.
    e) Display *name* with string method, *title()*.
    f) Use any of **your** three classes in this term and use multiple assignment to store your classes in to *class1*, *class2*, and *class3*.
    g) Use **concatenation** to store the data from *class1*, *class2*, and *class3* separated by a **tab** into *courses*.
    h) Display *courses* with string method, *upper()*.

    ```
    Example Output
    Welcome to a new semester!
    Name: John Smith
    Courses: ET123   MA456   ENGL789
    ```

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4.   Write a program to perform the following. Save your code as *PE2_4.py*.
        a) Create variables *email* and store your email information to the variable. The email address is in the form
        of user_name@company_name.com. For example, for the email address mjordan@nba.com user name is
        mjordan and company name is nba.
        b) Use **slicing** to print the email address.
        c) Use **slicing** and string **methods** to print only the user name all in **lowercase**.
`   d) Use **slicing** and string **methods** to print only the company name all in **uppercase**.

```
Example Output
Email address: mjordan@nba.com
User name: mjordan
Company name: NBA
```

5.   A – F, identify the **errors** and **rewrite** the statement in the correct syntax. Save your code as *PE2_5.py*.

A	0.05 = interest 10 = balance print(interest*balance)	B	bal = 123 dep = $100,000 print(bal+dep)
Debug		Debug	
C	a = 2 b = 3 a+b = c print(c)	D	txt = "Hi" class = 574 print(txt+class)
Debug		Debug	
E	n = 1234 print(n[0])	F	phoneNum = 718-631-6262 print('QCC phone number is ' + phoneNum)
Debug		Debug	