

## Programming Assignment Week 2:

1. (30pts) Write a Python program to display the current date and time. (Must be the time that you write this program at. Otherwise, you won't get points.)

In the following output:

```
# Current date and time :  
# YYYY-mm-dd H:M:S
```

### Sample Output :

```
Current date and time :  
2021-12-28 18:05:43
```

2. (30pts) Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings.

Sample List :

```
['abcdefg', 'kkzz', 'aba', '3528', '6006', '3214', 'zrkz']
```

### Sample Output :

3

3. (30pts) Write a Python program to create and display all combinations of letters, selecting each letter from a different key in a dictionary.

Sample data : {'1': ['x', 'y', 'z'], '2': ['s', 't']}

### Sample Output:

```
xs  
xt  
ys  
yt  
zs  
zt
```

4. (30pts) Write a Python program with a function to replace last value of tuples in a list.

Sample list: [(10, 20, 40), (40, 50, 60), (70, 80, 90)]

### Sample Output:

```
[(10, 20, 1000), (40, 50, 1000), (70, 80, 1000)]
```

5. (30pts) Write a Python program to split a given multiline string into a list of lines.

Original string:

```
This  
is a  
multiline  
string.
```

Split the said multiline string into a list of lines

### Sample Output:

```
['This', 'is a', 'multiline', 'string.', '']
```