

Programming Assignment Week 10:

1. (30pts) Write a Python program that matches a string that has an a followed by zero or more b's.
Sample Input:

Sample Output :

```
ac has a match!
abc has a match!
abbc has a match!
eieio ax zzbb cc a bba has a match!
aaaabab aaa has a match!
xxxx abzzzzz has a match!
uuuuuu not matched!
```

2. (30pts) Write a Python program to find the sequences of one upper case letter followed by lower case letters.

Sample Output :

```
AaBbGg has a match!
Python has a match!
python not matched!
PYTHON not matched!
aA not matched!
Aa has a match!
```

3. (30pts) Write a Python program that matches a word containing 'z'.

Sample Output:

```
The quick brown fox jumps over the lazy dog. has a match!
Python Exercises. not matched!
I like pizza. has a match!
UC Berkeley courses use Piazza has a match
```

4. (30pts) Write a Python program to check for a number at the end of a string.

Sample Output:

```
abcde not matched!
forever21 has a match!
george bush not matched!
level 5 has a match!
```

```
twins2 has a match!  
lululemon123t good not matched!
```

5. (30pts) Write a Python program to replace whitespaces with an underscore and vice versa.

Sample Output:

```
Original String: Wall Street  
space by _      : Wall_Street  
_ by space      : Wall Street  
  
Original String: Computer Science  
space by _      : Computer_Science  
_ by space      : Computer Science  
  
Original String: long long ago  
space by _      : long_long_ago  
_ by space      : long long ago  
  
Original String: real-estate  
space by _      : real-estate  
_ by space      : real-estate
```