Programming Assignment Week 12 (Regular Expressions):

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 abzzzz 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
```