

CONTEST - WEEK 4

NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

Q1. Create a python function named **isPalindrome** which accepts a string as a parameter and return **True** if its a palindrome. Palindrome are words which is same when read from start and same when read from the end.

```
# Example 1
x = isPalindrome("moom")
print(x)

# Output
True

# Example 2
x = isPalindrome("ABCcba")
print(x)

# Output
True

# Example 3
x = isPalindrome("ABCcbaa")
print(x)

# Output
False
```

Q2. Keep asking characters from user until he presses **q** on the keyboard. Change all the capital letters to small, and all the small letters to capital.

(Don't use swapcase())

```
Enter character = a
Enter character = K
Enter character = *
Enter character = @
Enter character = p
Enter character = q
Enter character = C
Enter character = ^
Enter character = q

# Output
Ak*@PQc^Q
```

Q3. Python Program to remove all duplicates from a given string.

Q4. Ask a sentence from user. Then ask a integer **k** from user. Print all the words which are greater or equal to k.

```
Enter sentence = python is a great language. Very easy to understand also
Enter k = 5

# Output
python great language. understand
```

Q5. Ask a string from user. Replace all the **space** characters with “-”. Do not use **replace()** method.

```
Enter string = python is a great language

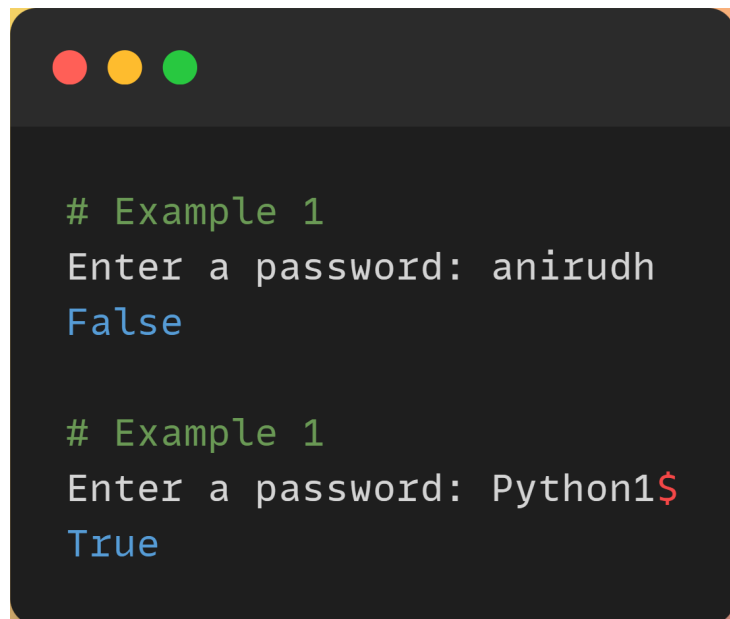
# Output
python-is-a-great-language
```

Q6. Make a password strength function. It will accept a string from user.

Return **True** if it is a strong password.

Strong password has these characteristics.

- Minimum 8 character
- Minimum 1 uppercase alphabet
- Minimum 1 lowercase alphabet
- Contains at least 1 special symbol (any symbol)
- Minimum 1 digit

A terminal window with a dark background and three colored window control buttons (red, yellow, green) in the top-left corner. It displays two examples of password validation. The first example shows the password 'anirudh' being entered, which is then evaluated as 'False'. The second example shows the password 'Python1\$' being entered, which is then evaluated as 'True'.

```
# Example 1
Enter a password: anirudh
False

# Example 1
Enter a password: Python1$
True
```