***Day 13 task***

#### **Write a Python program for all the cases which can check a string contains only a certain set of characters**

**import** **re**

**def** is\_allowed\_specific\_char(string):

charRe = re.compile(r'[^a-zA-Z0-9.]')

string = charRe.search(string)

**return** **not** bool(string)

print(is\_allowed\_specific\_char("ABCDEFabcdef123450"))

print(is\_allowed\_specific\_char("1233@@#$$%$"))

***Output:-***

True

False

#### **Write a Python program that matches a word containing 'ab'.**

**def** text\_match(text):

patterns = '\w\*ab.\w\*'

**if** re.search(patterns, text):

**return** 'Found a match!'

**else**:

**return**('Not matched!')

print(text\_match("Python program"))

print(text\_match("ababbbabab"))

***Output:-***

Not matched!

Found a match!

#### **Write a Python program to check for a number at the end of a word/sentence.**

**def** end\_num(string):

text = re.compile(r".\*[0-9]$")

**if** text.match(string):

**return** **True**

**else**:

**return** **False**

print(end\_num('abcdef12233'))

print(end\_num('abcdef634556'))

print(end\_num('abc'))

***Output:-***

True

True

False

#### **Write a Python program to search the numbers (0-9) of length between 1 to 3 in a given string**

results = re.finditer(r"([0-9]{1,3})", "Exercises number 5, 8, 50, and 500 are important")

print("Number of length 1 to 3")

**for** n **in** results:

print(n.group(0))

Output:-

Number of length 1 to 3

5

8

50

500

#### **Write a Python program to match a string that contains only uppercase letters**

**def** text\_match(text):

patterns = '^[a-zA-Z0-9\_]\*$'

**if** re.search(patterns, text):

**return** 'Found a match!'

**else**:

**return**('Not matched!')

print(text\_match("The quick brown fox jumps over the lazy dog."))

print(text\_match("Python\_Exercises\_1"))

***Output:-***

Not matched!

Found a match!