

Task - 13

```
# task- 13
```

```
# 1. Write a Python program for all the cases which can check a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).
```

```
import re
def is_allowed_spcfc_char(str):
    charRe = re.compile(r'^a-zA-Z0-9.'])
    str = charRe.search(str)
    return not bool(str)
print(is_allowed_spcfc_char("ABCdef123"))
print(is_allowed_spcfc_char("@$%!"))
```

output : -

```
True
```

```
False
```

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

```
import re

txt = "hello ab how are you "
x = re.search("ab", txt)
if x:
    print("yes, found ab in word")
else:
    print("no match found")
```

output : -

```
yes, found ab in word
```

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

```
import re
```

```
txt = "hello,how are you 2"
x = re.search("[0-9]$", txt)
if x:
    print("yes ,there are a number at the end of a word/sentence")
else:
    print("no , there are not a number at the end of a word/sentence")
```

output :-

```
yes ,there are a number at the end of a word/sentence
```

```
# 4. Write a Python program to search the numbers
# (0-9) of length between 1 to 3 in a given string
import re
results = re.finditer(r"([0-9]{1,3})", "roll no 1,45,236 are left.")
print("Number of length 1 to 3 :- ")
for n in results:
    print(n.group(0))
```

output :-

```
Number of length 1 to 3 :-

1
45
236
```

```
# 5. Write a Python program to match a string that contains only uppercase
# letters
import re
```

```
txt = "30 DAYS 30 hour Challenge"
x = re.findall("[A-Z]", txt)
print(x)
```

output :-

```
['D', 'A', 'Y', 'S', 'C']
```