```
#1. Python program to find the first occurrence of sub string in a given main
string using index( ) method.

string = "First occurrence of the in the string."

sub_string = string.index("the")

print("The sub string starts from index: ",sub_string + 1)
```

Output:

The sub string starts from index: 21

Process finished with exit code 0

```
#2. Python program to know the type of character entered by the user.
(Alphabet or numeric character, capital or lower case letter, numeric digit
or space or special character).

ch = input("Enter any character : ")

if ch[0].isalpha() :
    print("\n" + ch[0], "is A ALPHABET.")
elif ch[0].isdigit() :
    print("\n" + ch[0], "is A DIGIT.")
else :
    print("\n" + ch[0], "is A SPECIAL CHARACTER.")
```

Output:

Enter any character : }

} is A SPECIAL CHARACTER.

Process finished with exit code 0

```
#3. Python Program to Sort Words in Alphabetic Order.

my_str = input("Please enter a sentence: ")

words = [word.lower() for word in my_str.split()]

words.sort()

print("The sorted words are:")
for word in words:
    print(word)
```

Output:

Please enter a sentence: I study at Navrachana University

The sorted words are:

at

i

navrachana

study

university

Process finished with exit code 0

```
#4. Python program to remove all duplicates from a given string in Python.
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```
s = "Python is great and Java is also great"
print('Original String: ',s)
l = s.split()
k = []
for i in l:
    if (s.count(i) >= 1 and (i not in k)):
        k.append(i)
print('New String:',' '.join(k))
```

Output:

Original String: Python is great and Java is also great

New String: Python is great and Java also

Process finished with exit code 0

```
#5. Python Program to Replace all Occurrences of 'a' with $ in a String.

string = input('Please enter a string: ')
```

```
print("")
print('Original string: ',string)
new_string = ''
for i in range(len(string)):
    if (string[i] == 'a'):
        new_string += '$'
    else:
        new_string += string[i]
print('New string: ',new_string)
```

Output:

Please enter a string: I study at Navrachana University

Original string: I study at Navrachana University

New string: I study $t N$vrchn$ University

Process finished with exit code 0