```
#1. Python program to split and join a string.

string = 'hello how are you'

split_string = string.split(' ')

join_string = '-'.join(split_string)

print("Original string: ",string)

print("String split: ",split_string)

print("String joined: ",join_string)
```

Output:

Original string: hello how are you

String split: ['hello', 'how', 'are', 'you']

String joined: hello-how-are-you

Process finished with exit code 0

```
#2. Python Program to Calculate the Number of Upper Case Letters and Lower
Case Letters in a String.
```

```
string = "Navrachana University"
lower, upper = 0, 0
for i in string:
    if (i >= 'a' and i <= 'z'):
        lower = lower + 1
    if (i >= 'A' and i <= 'Z'):
        upper = upper + 1

print('Lower case characters: ', lower)
print('Upper case characters: ', upper)
```

Output:

Lower case characters: 18

Upper case characters: 2

Process finished with exit code 0

```
#3. Python Program to Count the Number of Occurrence of a Character in
String.

count = 0
```

```
string = "navrachana"
char = "a"

for i in string:
    if i == char:
        count += 1

print(count)
```

Output:

4

Process finished with exit code 0

```
#4. Python Program to Accept a Hyphen Separated Sequence of Words as Input
and Print the Words in a Hyphen-Separated Sequence after sorting them
alphabetically.

string=input("Enter a hyphen separated sequence of words:")
join_string=string.split('-')
```

```
join_string.sort()
print('-'.join(join_string))
```

Output:

Enter a hyphen separated sequence of words:I-study-at-Navrachana-University

I-Navrachana-University-at-study

Process finished with exit code 0

```
#5. Python Program to compute all the Permutation of the String.

ini_str = "var"

print("Initial string", ini_str)

result = []
```

```
def permutation(data, i, length):
    if i == length:
        result.append(''.join(data))
    else:
        for j in range(i, length):
            data[i], data[j] = data[j], data[i]
            permutation(data, i + 1, length)
            data[i], data[j] = data[j], data[i]

permutation(list(ini_str), 0, len(ini_str))

print("Resultant permutations: ", str(result))
```

Output:

Initial string var

Resultant permutations: ['var', 'vra', 'avr', 'arv', 'rav', 'rva']

Process finished with exit code 0