-: Program :-

WAP to perform the following operations on an input string

     a. Print length of the string
     b. Find frequency of a character in the string
     c. Print whether characters are in uppercase or lowercase

-: Code :-

```python
# a. Print length of the string

def str_len(str1):

    print("Length of the String is",len(str1))


# b. Find frequency of a character in the string

def freq(str1):

    cha = input("Enter the Character:")

    print(f"Frequency of Character {cha} is",str1.count(cha))


# c. Print the frequency of uppercase and lowercase characters

def chr_up_lo(str1):

    upper = 0

    lower = 0


    for i in str1:

        if 65 <= ord(i) <= 90:

            upper += 1

        elif 97 <= ord(i) <= 122:

            lower += 1


    print(f"Number of uppercase characters: {upper}")

    print(f"Number of lowercase characters: {lower}")


def display_menu():

    print("\n1. Print length of the string")
```

```python
    print("2. Find frequency of a character in the string")
    print("3. Print whether characters are in uppercase or lowercase")
    print("4. Exit")


def main():
    str1 = input("Enter the String:")
    while True:
        display_menu()
        choice = int(input("Enter your choice: "))
        if choice == 1:
            str_len(str1)
        elif choice == 2:
            freq(str1)
        elif choice == 3:
            chr_up_lo(str1)
        elif choice == 4:
            print("Exiting...")
            break
        else:
            print("Invalid choice. Please try again.")


main()
```

-: Output :-

```
PS C:\Users\Anshumank Sahay\Desktop\Class work> & "C:/Users/A
n3.12.exe" "c:/Users/Anshumank Sahay/Desktop/Class work/Progr
Enter the String:Hello World! How are You?

1. Print length of the string
2. Find frequency of a character in the string
3. Print whether characters are in uppercase or lowercase
4. Exit
Enter your choice: 1
Length of the String is 25

1. Print length of the string
2. Find frequency of a character in the string
3. Print whether characters are in uppercase or lowercase
4. Exit
Enter your choice: 2
Enter the Character:a
Frequency of Character a is 1

1. Print length of the string
2. Find frequency of a character in the string
3. Print whether characters are in uppercase or lowercase
4. Exit
Enter your choice: 3
Number of uppercase characters: 4
Number of lowercase characters: 15

1. Print length of the string
2. Find frequency of a character in the string
3. Print whether characters are in uppercase or lowercase
4. Exit
Enter your choice: 4
Exiting...
PS C:\Users\Anshumank Sahay\Desktop\Class work>
```