Question.1 Write a program to take input from user and print the table of given number

```
#Program to take input a number from user and print it's table
num = int(input("Enter the number for which you want to print table: "))
for i in range(1, 11, 1): # loop which gives values from 1 to 10
    print(num, "*", i, "=", num*i) # print the table
```

```
dynamictech@DynamicTech: ~/Desktop/Computer_Science/Practical_File
           View Search
                          Terminal
                                   Help
  —(dynamictech⊕ DynamicTech)-[~/Desktop/Computer_Science/Practical_File]
 —$ python program1.py
Enter the number for which you want to print table: 56
56 * 1 = 56
56 * 2 = 112
56 * 3 = 168
56 * 4 = 224
56 * 5 = 280
  * 6 = 336
56 * 7 = 392
56 * 8 = 448
56 * 9 = 504
56 * 10 = 560
```

Question2. Write a program to take two number as input and print the larger and smaller number

Program to take two number as input from user and print the greater and smaller number among both.

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
if num1 < num2:
    print("Smallest number:->", num1)
    print("Largest number:->", num2)
else:
    print("Smallest number:->", num2)
    print("Largest number:->", num1)
```

Question.3 Write a program to take 3 numbers as input and print the largest and smallest numbers

Program to take 3 number as input from user and print the smaller and largest number

```
n1 = int(input("Enter the first number: "))
n2 = int(input("Enter the second number: "))
n3 = int(input("Enter the third number: "))

if n1 < n2 and n1 < n3:
    print(n1, "is smaller number")
elif n2 < n1 and n2 < n3:
    print(n2, "is smaller number")
else:
    print(n3, "is smaller number")</pre>
```

Question.4 Write a program to print the value of following series

```
1+X+X^2+X^3+X^4+ .....X^n
```

Write a program to print the following series

```
n = int(input("Enter the value of n: "))
x = int(input("Enter the value of x: "))
a = 1
s = 0
for b in range(1, n+1, 1):
s = s + x**b
print(1 + s)
```

Question.5 Write a program to print value following series

1-X+X^2-X^3+X^4.....X^n

```
# Write a program to print following series

n = int(input("Enter the value of n: "))

x = int(input("Enter the value of x: "))

sign = -1

s = 0

for i in range(1, n+1, 1):

if i\%2 == 0:

s = s + (x**i)*sign

else:

s = s + (x**i)

print(1 - s)
```

Question.6 Print following series

```
X-2/X + 3/X - 4/X + \dots n/X
```

```
# Write a program to print following series

n = int(input("Enter the value of n: "))

x = int(input("Enter the value of x: "))

s = 0

sign = -1

for a in range(2, n+1):

if (a \% 2) == 0:

s = s + ((a/x)*sign)

else:

s = s + (a/x)

s = s + (a/x)
```

Question.7 Print following series

```
X +X^2/2 - X^3/3 + X^4/4.....X^n/n
```

```
# Program to print following series

n = int(input("Enter the value of n: "))

x = int(input("Enter the value of x: "))

s = 1

sign = -1

for a in range(2, n+1, 1):

if (a \% 2) == 0:

s = s + (x**a)/a

else:

s = s + ((x**a)/a)*sign

print(x + (s))
```

Question.8 Write a program to print the sum of digits of entered number

```
# Program to take a number as input from user and print the sum of it's digits num = int(input("Enter your number:"))
s = 0
for a in str(num):
a = int(a)
s = s + a
print("The sum of digits of", num, "is", s)
```

Question.9 Write a program to check whether a entered number is Armstrong or not

Question.10 Write a program to check whether entered number is Palindrome or not

```
# Program to take a number as input and check it whether it is Palindrome or not
num = input("Enter the number to check Palindrome: ")
rev_str = num[::-1]
if rev_str == num:
    print(num, "is Palindrome")
else:
    print(num, "is not Palindrome")
```

Question.11 Write a program to check entered number is Prime or Composite

```
# Program to take a number as input from user and check
whether it prime or composite
num = int(input("Enter the number to check it for
prime/composite: "))
cnt = 0
if num > 1:
    for a in range(2, int(num/2), 1):
        if (num % a) == 0:
            print(num, "is Composite")
            break
    else:
    print(num, "is Prime")
else:
print("Error")
```

Question.12 Print the Fabonacci series

0 1 1 2 3 5 8 13 21 34100

```
# Program to print Fibonacci series upto 100
# Fibonaccie series-> 0 1 1 2 3 5 8 13 21 34 ------ 100
a = 0
b = 1
c = 0
print("The Fabonacci series is:")
print(a,b, end=" ")
while c<=100:
    c = a + b
    a = b
    b = c
print(c, end=" ")</pre>
```

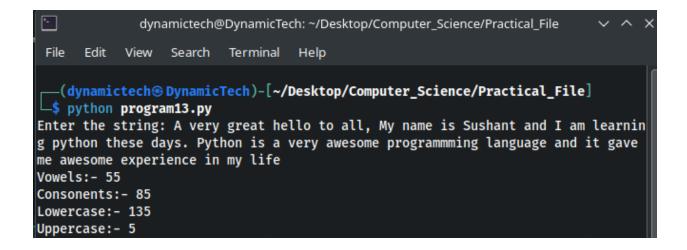
Question.13 Write a program to print following terms in entered string

1. Vowels 2. Consonents 3. Lowercase 4. Upper

Program to take a string as input from user and print the following terms in string and count also the occurance of the those terms.

```
ш
1. Vowels 2. Consonents 3. Lowercase 4. Uppercase
ш
s = input("Enter the string: ")
vow = "aeiou"
cons = "bcdfghjklmnpqrstvwxyz"
       Ic = uc = vow_occ = cons_occ = 0
for i in s:
       for v in vow:
              if i.upper() == v.upper():
       vow\_occ += 1
       for c in cons:
              if i.upper() == c.upper():
                     cons_occ += 1
              if i.islower():
                     1c += 1
              elif i.isupper():
                     uc += 1
print("Vowels:-", vow_occ)
```

```
print("Consonents:-", cons_occ)
print("Lowercase:-", lc)
print("Uppercase:-", uc)
```



Question.14 Write a program to check whether a entered string is Palindrome or not

Program to take a string as input from user and check whether it is Palindrome or not

```
st = input("Enter the string to check Palindrome: ")
rev_st = st[::-1]
if rev_st == st:
    print(st, "is Palindrome")
else:
    print(st, "is not Palindrome")
```

```
dynamictech@DynamicTech: ~/Desktop/Computer_Science/Practical_File
      Edit
            View
                  Search Terminal
                                    Help
  —(dynamictech® DynamicTech)-[~/Desktop/Computer_Science/Practical_File]
 _$ python program14.py
Enter the string to check Palindrome: teststring
teststring is not Palindrome
              dynamictech@DynamicTech: ~/Desktop/Computer_Science/Practical_File
      Edit View Search Terminal
                                   Help
  -(dynamictech@DynamicTech)-[~/Desktop/Computer_Science/Practical_File]
 -$ python program14.py
Enter the string to check Palindrome: malayalam
malayalam is Palindrome
```

Question.15 Write a program to convert the case of characters of entered string