9) Write a Python program to convert temperatures to and from Celsius, Fahrenheit. [Formula: c/5 = f-32/9 ]

**Source code:**

print("Options are \n")

print("1.Convert temperatures from Celsius to Fahrenheit \n")

print("2.Convert temperatures from Fahrenheit to Celsius \n")

opt=int(input("Choose any Option(1 or 2) : "))

if opt == 1:

print("Convert temperatures from Celsius to Fahrenheit \n")

cel = float(input("Enter Temperature in Celsius: "))

fahr = (cel\*9/5)+32

print("Temperature in Fahrenheit =",fahr)

elif opt == 2:

print("Convert temperatures from Fahrenheit to Celsius \n")

fahr = float(input("Enter Temperature in Fahrenheit: "))

cel=(fahr-32)\*5/9;

print("Temperature in Celsius =",cel)

else:

print("Invalid Option")

**Out Put:**

Options are

1.Convert temperatures from Celsius to Fahrenheit

2.Convert temperatures from Fahrenheit to Celsius

Choose any Option(1 or 2) : 1

Convert temperatures from Celsius to Fahrenheit

Enter Temperature in Celsius: 34

Temperature in Fahrenheit = 93.2

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10) Write a python program to construct the following pattern using nested for loop:

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**Source code:**

n=int(input("ENTER A VALUE:"))

for x in range(0,n+1,1):

print(x\*'\*')

if(x==n):

for x in range(n,0,-1):

print(x\*'\*')

Output:

ENTER A VALUE:5

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