Day3-Assignment:-May2/2025

(1) Right Angled Triangle Pattern Using Stars.

Ans)

```
rows = int(input("Enter the Number of Rows"))
for i in range(1, rows + 1):
    print("*" * i)
```

(2) Reverse a String Without Using Built-in Functions:-

Ans)

```
input_str = input("Enter a String: ")
reversed_Str = ""
for Char in input_Str:
    reversed_Str = Char + reversed_Str
print("Reversed String":, reversed str)
```

(3) Check if a Number is a palindrome:-

```
num = int(input("Enter a number")).
Original = num.
reverse = 0
```

```
while num> 0:
    digit = num % 10
    reverse = reverse * 10 + digit.
    num = num //10

if Original = = reverse:
    Print (f"{Original} is a palindrome.").

else
    print (f"{original} is a non-palindrome.").
```

(4) Print Number in Ascending and Descending Order Using a Loop:-

```
Ans) n = int(input ("Enter the Value of n:"))

Print ("Ascending Order:")
for i in range(1, n+1):
    print (i, end = " ")

print ("\n Descending Order: ")
for i in Range (n, 0, -1):
    Print (i, end = " ").
```

(5) Sum of Squares of First n Natural Numbers

Ans)

```
n = int(input("Enter the Number of Values : "))

    Sum_Squares = 0

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

    Sum Squares +1 = i * i

Print(f"Sum of Squares of first {n} natural Numbers is
    {Sum_Squares}.").
```