**Python Programming**

**Practical 4**

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**Batch: B2**

**Roll no. 255**

rows = 5

k = 2 \* rows - 2

for i in range(rows, -1, -1):

for j in range(k, 0, -1):

print(end=" ")

k = k + 1

for j in range(0, i + 1):

print("\*", end=" ")

print("")

**Output:**

**\* \* \* \* \* \***

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**Pattern 2:**

pat=7

for i in range(1,pat):

for j in range(i,0,-1):

print('$', end=' ')

print(' ')

pat=6

x=0

for i in range(pat,0,-1):

x+=1

for j in range(1,i):

print('$',end=' ')

print('\r')

**Output:**

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$ $ $

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$ $ $ $ $ $

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**Pattern 3:**

def pat(n):

k = 2\*n - 2 #number of spaces

for i in range(0,n): #number of rows

for j in range(0,k): #number of spaces

print(end=' ')

k = k - 2 #decrementing k

for j in range(0,i+1): #number of columns

print('+ ',end='') #printing $

print('\r')

pat(5)

**Output:**

**+**

**+ +**

**+ + +**

**+ + + +**

**+ + + + +**

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**Pattern 4:**

def tri(n):

k=n-1 #number of spaces

for i in range(0,n): #number of rows

for j in range (0,k): #number of spaces

print(end=' ')

k=k-1 #decrementing k after each loop

for j in range (0,i+1): #number of columns

print('.',end=' ') #printing \*

print('\r')

tri(8)

**Output:**

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**Pattern 5:**

def rog(n):

for i in range(0,n):

for j in range(0,i+1):

print("0",end='')

print("\n")

rog(8)

**Output:**

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