**Day 1 python programming**

**1.Right angle triangle**

n=5

For i in range(0,n):

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

Print(“\*”,end=” “)

Print()

**Output**: \*

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**2.left angle triangle**

n=4

k=2\*n-2

for i in range(n):

for j in range(k):

print(end=” “)

k=k-2

for j in range(i+1):

print(“\*”,end=” “)

print()

**output:** \*

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**3.Remove duplicates**:

List1=[1,2,1,2,3,4]

List2=[5,6,1,1,2,2]

Print(list(set(list1) ^ set(list2)))

**Output:**[3,4,5,6]

**4.Duplicate numbers how many times it present:**

name=[1,2,3,1,2,3,3,4]

for i in name:

if name.count(i)>1:

print(i,name.count(i))

**output:**2

3

**5.positive and negative numbers-sum and average :**

sum=0

while true:

a=5

if a==-1:

break

sum=sum+a

avg=sum/2

print(sum)

print(avg)

**output:**5

5

2.5

-1

**6.Tech Number:**

num=2025

first\_half=int(num%100)

print(first\_half)

second\_half=num/100

print(second\_half)

product=(first\_half+second\_half)\*( =(first\_half+second\_half)

if (product==num):

print(“the number is tech: ”,+str(num))

else:

print(“the number is not a tech: ”,+str(num))

**output**:the number is tech :2025

**7.perfect number:**

n=6

sum=0

for i in range(1,n):

if n%i==0:

sum=sum+i

if sum==n:

print(“is perfect number”)

else:

print(“is not a perfect number”)

**output:**is a perfect number

**8.prime and composite**

num=2

if num>1:

For i in range(2,num):

If(num%i)==0:

Print(num,”is a composite number”)

break

else:

print(num,”is a prime number”)

elseif num==0 or 1:

print(num,”is neither a prime number or composite number”)

**output:**2 is a prime number.

**9.uppercase and lowercase**

name=”ravi is sleeping”

Print(name.upper())

Print(name.lower())

Print(len(name.spilt())

Words=name.split(“-“)

Count=0

For i in words:

if list(i)[0].lower()==”s”:

Count+=1

Print(count)

**Output:** RAVI IS SIEEPING

ravi is sleeping

4

1

**10.Alphabets with the unique code**

For i in range(ord(“A”, ord(“Z”)+1):

Print(f”{chr(i)}-{i}”)

**Output:** A=65, B=66, C=67, D=68---------etc