solution 1:-

I made assumpution as only 2 colomn are given

Table name = Data

Assumption 1 :- Given colomn are (ID , DEPT\_NAME , AVG\_MONTHLY\_SALARY)

QUERRY :- SELECT DEPT\_NAME, AVG\_MONTHLY\_SALARY FROM Data ORDER BY AVG\_MONTHLY\_SALARY DESC LIMIT 3;

Assumption 2 :- Given colomn are ( ID , DEPT\_NAME , NO\_OF\_EMPLOYIES , TOTAL\_AMOUNT\_PAID )

QUERRY :- SELECT DEPT\_NAME, (Total\_amount\_paid / No\_of\_employees) AS AVG\_MONTHLY\_SALARY

FROM Data

ORDER BY AVG\_MONTHLY\_SALARY DESC

LIMIT 3;

solution 2:-

cssv file name = Data.csv

Assumption 1 :- Given colomn are (ID , DEPT\_NAME , Avg\_salary)

CODE :-

import pandas as pd

df = pd.read\_csv('your\_file.csv')

# Sort the dataframe by average salary in descending order

sorted\_df = df.sort\_values('Avg\_salary', ascending=False)

# Fetch the top 3 departments

top\_3\_departments = sorted\_df.head(3)['DEPT\_NAME']

# Print the top 3 departments

print(top\_3\_departments)

Assumption 2 :- Given colomn are ( ID , DEPT\_NAME , NO\_OF\_EMPLOYIES , TOTAL\_AMOUNT\_PAID )

CODE :-

import pandas as pd

data = pd.read\_csv('Data.csv')

# Calculate the average salary per department

avg\_salary\_per\_dept = data.groupby('Name\_of\_department')['Total\_amount\_paid'].mean()

# Sort the departments by average salary in descending order

sorted\_departments = avg\_salary\_per\_dept.sort\_values(ascending=False)

# Fetch the top 3 departments

top\_3\_departments = sorted\_departments.head(3)

# Print the top 3 departments and their average salaries

print(top\_3\_departments)

solution 3

I have use python language

Here i found 2 mistakes

mistake 1 -> range(1,n-10) since range iritate one less to the second argument

so need to take addition of 1 in required calculation.

mistake 2 -> formula for calculating sum of first n number is n\*(n+1)/2 but here

uses n\*(n-1)/2 , i made it correct

def compute(n):

if n < 10:

out = n \*\* 2

elif n < 20:

out = 1

for i in range(1, n-9):

out \*= i

else:

lim = n - 20

out = lim \* lim

out = out + lim

out = out / 2

print(out)

n = int(input("Enter an integer: "))

compute(n)