1) Discount calculation

amount = float(input("Enter the purchase amount: "))

discount = 0

if amount > 40000:

discount = 0.30 \* amount

elif 25000 < amount <= 40000:

discount = 0.20 \* amount

elif 10000 <= amount <= 25000:

discount = 0.10 \* amount

2)print(f"Discount: {discount}")

print(f"Final amount after discount: {amount - discount}")

4)Letter printing

string = "Wolfeschlegelsteinhausenbergerdorff"

for letter in string:

if letter != 'o' and letter != 'e':

print(letter)

5)numbers = list(range(1, 11))

print("Index 1 to 6:", numbers[1:6])

print("Index 5 to 1 (reverse):", numbers[5:0:-1])

6) sum\_squares = sum(i\*\*2 for i in range(10, 21))

print("Sum of squares from 10 to 20:", sum\_squares)

7) File Append

with open("sample.txt", "a") as f:

f.write("This is an appended line.\n")

8)File Write

with open("sample.txt", "w") as f:

f.write("This line will overwrite the file.\n")

9) class Maths:

def \_\_init\_\_(self, a, b):

self.a = a

self.b = b

def display(self):

print(f"Data members: a = {self.a}, b = {self.b}")

obj = Maths(10, 20)

obj.display()

10) class SET:

def \_\_init\_\_(self, CSE):

self.CSE = CSE

def display(self):

print("CSE Department:", self.CSE)

class SCM:

def \_\_init\_\_(self, BCom):

self.BCom = BCom

def display(self):

print("BCom Department:", self.BCom)

11)Create objects and pass values

set\_obj = SET("Computer Science Engineering")

scm\_obj = SCM("Bachelor of Commerce")

set\_obj.display()

scm\_obj.display()

[4/17, 10:15 AM] Piyush Khaire: import matplotlib.pyplot as plt

12) X = [2, 4, 6, 8, 10]

Y = [20, 40, 60, 80, 100]

plt.bar(X, Y)

plt.xlabel("X-axis")

plt.ylabel("Y-axis")

plt.title("Bar Graph Example")

plt.show()

13) X = [15, 15.3, 15.7]

Y = [15, 15.3, 15.7]

print("X - Min:", min(X), ", Max:", max(X))

print("Y - Min:", min(Y), ", Max:", max(Y))