**1.Assign different grades to students based on their scores.**

**If a student scores above 90, assign grade A**

**If a student scores above 75, assign grade B**

**If a student scores above 65, assign grade C**

**Solution:**

def assign\_grade(score):

if score > 90:

return 'A'

elif score > 75:

return 'B'

elif score > 65:

return 'C'

else:

return 'No grade'

students\_scores = {

"Alice": 95,

"Bob": 82,

"Charlie": 70,

"Daisy": 60

}

students\_grades = {}

for student, score in students\_scores.items():

students\_grades[student] = assign\_grade(score)

for student, grade in students\_grades.items():

print(f"{student}: Grade {grade}")

**2.Write a code in Python to do slice [2:5] for following string.**

**“THISISWORLDBESTPRATICE”**

**Solution:**

text = "THISISWORLDBESTPRATICE"

sliced\_text = text[2:5]

print(sliced\_text)

3.**Perform following file operation.**

**Read file content**

**Write into the file**

**Solution:**

with open("example.txt", "r") as file:

content = file.read()

print("Original Content:\n", content)

with open("example.txt", "w") as file:

file.write("This is the new content written to the file.")

**4**.**Develop a code in python for following scenario**

**A single class should be mentioned in the code**

**There should be two data members in the class.**

**Solution:**

class Student:

name = ""

age = 0

def \_\_init\_\_(self, name, age):

self.name = name

self.age = age

def display(self):

print(f"Name: {self.name}")

print(f"Age: {self.age}")

student1 = Student("John", 20)

student1.display()

1. **Draw a line in a diagram from position (1, 3) to position (8, 10):**

**Solution:**

import matplotlib.pyplot as plt

start\_point = (1, 3)

end\_point = (8, 10)

x\_values = [start\_point[0], end\_point[0]]

y\_values = [start\_point[1], end\_point[1]]

plt.plot(x\_values, y\_values, marker='o', color='b', label="Line from (1, 3) to (8, 10)")

plt.xlabel('X-axis')

plt.ylabel('Y-axis')

plt.title('Line Plot from (1, 3) to (8, 10)')

plt.grid(True)

plt.legend()

plt.show()

1. **Develop a code in python suing for loop to print 5th table.**

**Solution:**

for i in range(1, 11):

result = 5 \* i

print(f"5 x {i} = {result}"**)**

**7.Write a code in Python to do slice [4:12] for following string.**

**“THISISWORLDBESTPRATICE”**

**Solution:**

text = "THISISWORLDBESTPRATICE"

sliced\_text = text[-2:-12]

print(sliced\_text)

**8.Perform following file operation.Read file content. Write into the file**

**Solution:**

with open("example.txt", "a") as file:

file.write("\nThis is appended content.")

with open("example.txt", "w") as file:

file.write("This is new content written to the file.")

**9**.**Develop a code in python for following scenario**

**A single class should be mentioned in the code**

**There should be two data members in the class.**

**Solution:**

def assign\_grade(score):

if score > 90:

return 'A'

elif score > 75:

return 'B'

elif score > 65:

return 'C'

else:

return 'No grade'

students\_scores = {

"Alice": 95,

"Bob": 82,

"Charlie": 70,

"Daisy": 60

}

students\_grades = {}

for student, score in students\_scores.items():

students\_grades[student] = assign\_grade(score)

for student, grade in students\_grades.items():

print(f"{student}: Grade {grade}")

**11.Develop a code in python suing for loop to print 9th table.**

**Solution:**

for i in range(1, 11): # Loop from 1 to 10

result = 9 \* i

print(f"9 x {i} = {result}")

**12.Write a code in Python to do slice [-2:-12] for following string.**

**“THISISWORLDBESTPRATICE”**

**Solution=**

text = "THISISWORLDBESTPRATICE"

sliced\_text = text[-2:-12]

print(sliced\_text)

**14.Develop a code in python for following scenario**

**A single class should be mentioned in the code**

**There should be two data members in the class.**

**Solution:**

with open("example.txt", "r") as file:

content = file.read()

print("Original Content:\n", content)

with open("example.txt", "w") as file:

file.write("This is new content added to the file.")

**Bakiche repeted ye……………………..**

**All the best………………**