class EmployeePerformanceEvaluator:

def \_\_init\_\_(self, productivity, attendance, teamwork, communication):

self.productivity = productivity

self.attendance = attendance

self.teamwork = teamwork

self.communication = communication

def evaluate\_productivity(self):

if self.productivity >= 90:

return "Excellent"

elif self.productivity >= 70:

return "Good"

elif self.productivity >= 50:

return "Average"

else:

return "Poor"

def evaluate\_attendance(self):

if self.attendance >= 95:

return "Excellent"

elif self.attendance >= 85:

return "Good"

elif self.attendance >= 75:

return "Average"

else:

return "Poor"

def evaluate\_teamwork(self):

if self.teamwork >= 9:

return "Excellent"

elif self.teamwork >= 7:

return "Good"

elif self.teamwork >= 5:

return "Average"

else:

return "Poor"

def evaluate\_communication(self):

if self.communication >= 9:

return "Excellent"

elif self.communication >= 7:

return "Good"

elif self.communication >= 5:

return "Average"

else:

return "Poor"

def overall\_performance(self):

productivity\_score = self.evaluate\_productivity()

attendance\_score = self.evaluate\_attendance()

teamwork\_score = self.evaluate\_teamwork()

communication\_score = self.evaluate\_communication()

# Assign weights to each criterion

weights = {

'productivity': 0.4,

'attendance': 0.2,

'teamwork': 0.2,

'communication': 0.2

}

# Calculate overall score

overall\_score = 0

overall\_score += self.\_get\_score(productivity\_score) \* weights['productivity']

overall\_score += self.\_get\_score(attendance\_score) \* weights['attendance']

overall\_score += self.\_get\_score(teamwork\_score) \* weights['teamwork']

overall\_score += self.\_get\_score(communication\_score) \* weights['communication']

# Determine overall performance rating

if overall\_score >= 90:

return "Outstanding"

elif overall\_score >= 70:

return "Good"

elif overall\_score >= 50:

return "Satisfactory"

else:

return "Needs Improvement"

def \_get\_score(self, rating):

if rating == "Excellent":

return 100

elif rating == "Good":

return 80

elif rating == "Average":

return 60

else:

return 40

# Example usage

if \_\_name\_\_ == "\_\_main\_\_":

# Input employee performance metrics

productivity = float(input("Enter productivity score (0-100): "))

attendance = float(input("Enter attendance percentage (0-100): "))

teamwork = float(input("Enter teamwork rating (0-10): "))

communication = float(input("Enter communication rating (0-10): "))

# Create an instance of the evaluator

evaluator = EmployeePerformanceEvaluator(productivity, attendance, teamwork, communication)

# Evaluate and display results

print("\nPerformance Evaluation Results:")

print(f"Productivity: {evaluator.evaluate\_productivity()}")

print(f"Attendance: {evaluator.evaluate\_attendance()}")

print(f"Teamwork: {evaluator.evaluate\_teamwork()}")

print(f"Communication: {evaluator.evaluate\_communication()}")

print(f"\nOverall Performance: {evaluator.overall\_performance()}")

Enter productivity score (0-100): 85

Enter attendance percentage (0-100): 90

Enter teamwork rating (0-10): 8

Enter communication rating (0-10): 6

Performance Evaluation Results:

Productivity: Good

Attendance: Good

Teamwork: Good

Communication: Average

Overall Performance: Good