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Roll No.: COTA59

Experiment No.: 06(AI)

Program Code:

Knowledge Base

positive_criteria = {

 "Finish_work_deadlines": 5,

 "high_quality_work": 4,

 "great_team_player": 3,

 "consistently_improves": 2,

 "excellent_communication": 1,

}

negative_criteria = {

 "misses_deadlines": -5,

 "poor_quality_work": -4,

 "poor_team_player": -3,

 "resistant_to_feedback": -2,

 "poor_communication": -1,

}

#rule engine

def evaluate_employee(positives, negatives):

 score = 0

 for pos in positives:

 score += positive_criteria.get(pos, 0)

 for neg in negatives:

 score += negative_criteria.get(neg, 0)

 return score

#user interface

def user_interface():

```

print("Employee Performance Evaluation")
print("Please enter positive criteria from the list below, separated by commas:")
for criterion in positive_criteria:
    print(f"- {criterion}")
print("\n")
positives_input = input("> ")
print("\n")

print("Please enter negative criteria from the list below, separated by commas:")
for criterion in negative_criteria:
    print(f"- {criterion}")
print("\n")
negatives_input = input("> ")
print("\n")

positives = [item.strip() for item in positives_input.split(",")]
negatives = [item.strip() for item in negatives_input.split(",")]

score = evaluate_employee(positives, negatives)
print(f"Employee Score: {score}")
print("\n")

if score > 10:
    print("Performance: Outstanding")
elif score > 5:
    print("Performance: Good")
elif score > 0:
    print("Performance: Satisfactory")
else:
    print("Performance: Needs Improvement")

if __name__ == "__main__":
    user_interface()

```

OUTPUT:

Employee Performance Evaluation

Please enter positive criteria from the list below, separated by commas:

- Finish_work_deadlines
- high_quality_work
- great_team_player
- consistently_improves
- excellent_communication

> exceeds_deadlines,high_quality_work,excellent_communication

Please enter negative criteria from the list below, separated by commas:

- misses_deadlines
- poor_quality_work
- poor_team_player
- resistant_to_feedback
- poor_communication

> poor_team_player

Employee Score: 7

Performance: Good