

Tip calculator program

Pseudocode

START

DISPLAY "Enter the total bill amount (before tip): "

 READ bill_amount

 IF bill_amount <= 0 THEN

 DISPLAY "Invalid amount entered."

 EXIT

DISPLAY "Enter the service quality (poor, fair, good, excellent): "

 READ service_quality

 IF service_quality NOT IN ("poor", "fair", "good", "excellent") THEN

 DISPLAY "Please choose one of the following: poor, fair, good, excellent."

 EXIT

DISPLAY "Enter the number of people splitting the bill: "

 READ num_people

 IF num_people <= 0 THEN

 DISPLAY "Invalid number entered."

 EXIT

IF service_quality == "poor" THEN

 tip_percentage = 0.10

ELSE IF service_quality == "fair" THEN

 tip_percentage = 0.15

ELSE IF service_quality == "good" THEN

 tip_percentage = 0.18

ELSE IF service_quality == "excellent" THEN

 tip_percentage = 0.20

END IF

tip_amount = bill_amount * tip_percentage

total_amount = bill_amount + tip_amount

amount_per_person = total_amount / num_people

DISPLAY "The original bill amount: ", bill_amount

DISPLAY "The Service quality: ", service_quality, " with tip percentage: ", tip_percentage * 100, "%"

DISPLAY "Calculated tip amount: ", tip_amount

 DISPLAY "Total amount including tip: ", total_amount

 DISPLAY "Number of people splitting the bill: ", num_people

 DISPLAY "Amount each person should pay: ", amount_per_person

END