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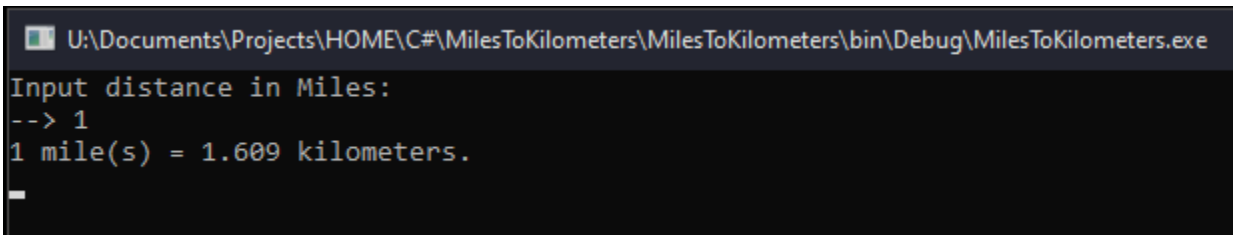
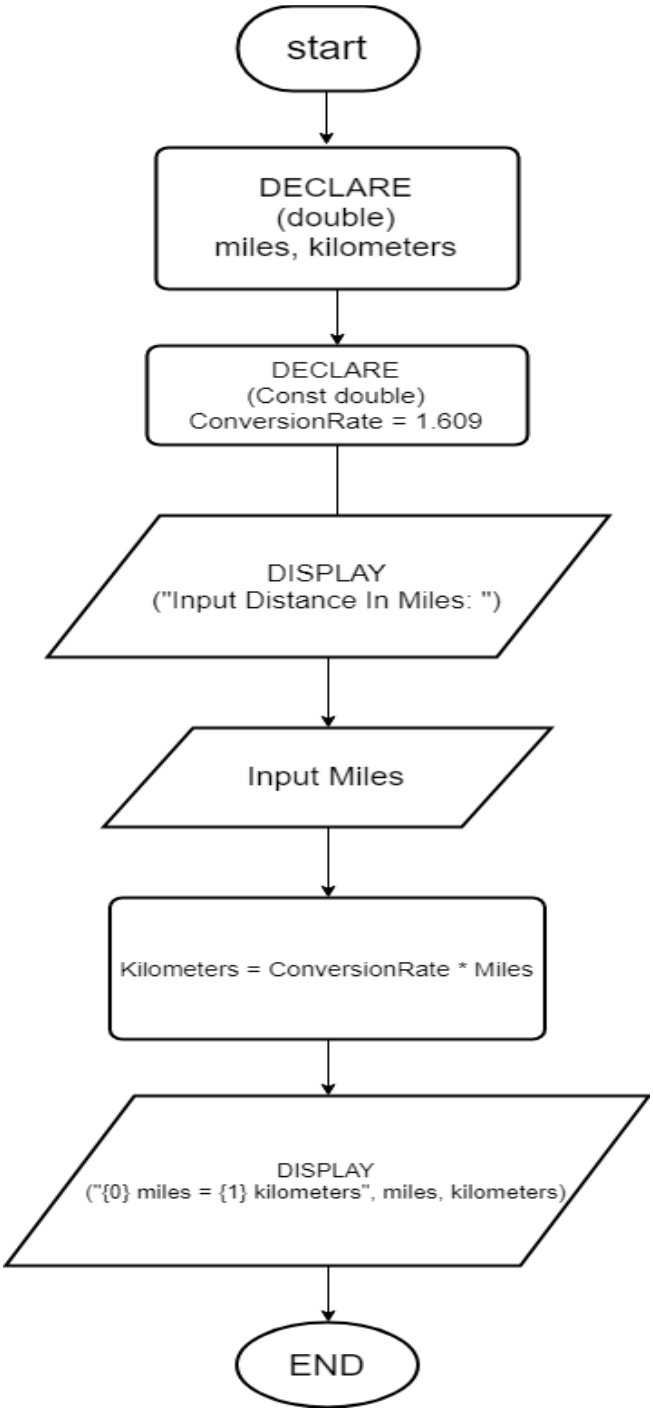
BSc(Hons.)Web & Multimedia Development – Year 2

Question 1

```
DECLARE (double) miles, kilometers
DECLARE (Const double) conversionRate = 1.609
DISPLAY "Input Distance (in miles): "
INPUT miles
Kilometers = (miles * conversionRate)
DISPLAY "{0} miles = {1}Km", miles, kilometers
```




start
DECLARE
(double)
miles, kilometers
DECLARE
(Const double)
ConversionRate = 1.609
DISPLAY
("Input Distance In Miles: ")
Input Miles
Kilometers = ConversionRate * Miles
DISPLAY
("{0} miles = {1} kilometers", miles, kilometers)
END

Question 2

DECLARE (double) r, area

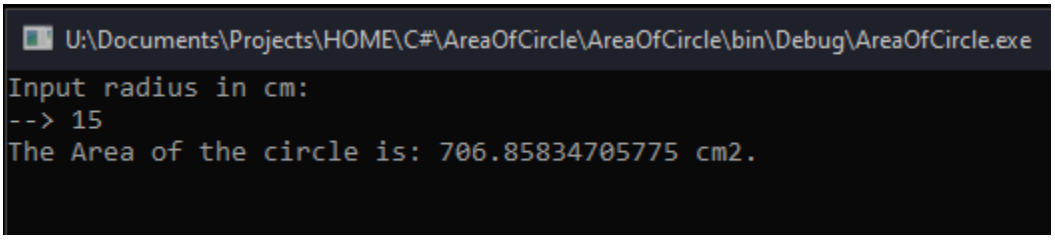
DECARE (Const double) pi = 3.14159265359

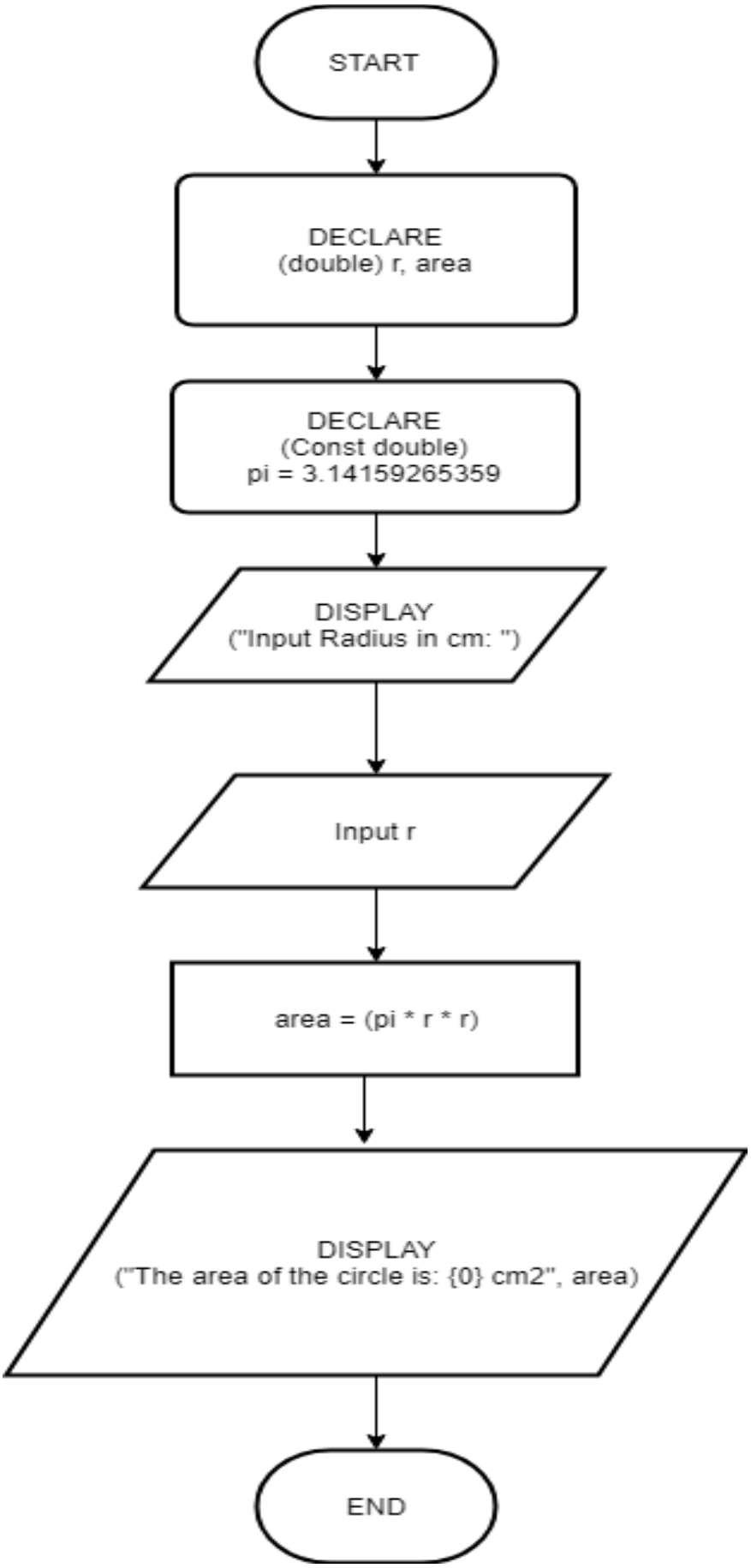
DISPLAY (“Input radius (in cm)”)

INPUT r

Area = (pi * r * r)

DISPLAY “The area of the circle is: {0} cm^2”, area




START
DECLARE
(double) r, area
DECLARE
(Const double)
pi = 3.14159265359
DISPLAY
("Input Radius in cm: ")
Input r
area = (pi * r * r)
DISPLAY
("The area of the circle is: {0} cm2", area)
END

Question 3

DECLARE (double) Celsius, Fahrenheit, depth

DISPLAY “Input depth (in Km)”

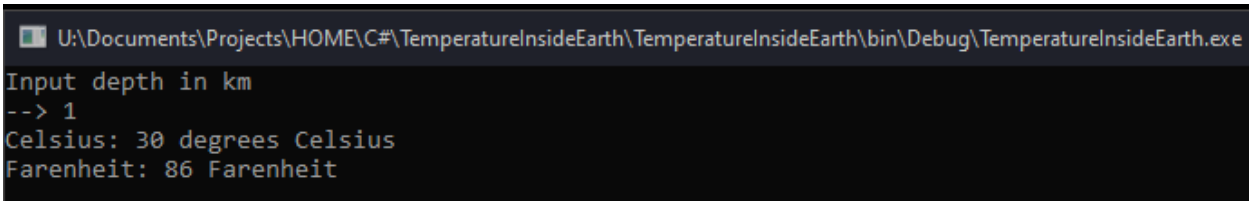
INPUT depth

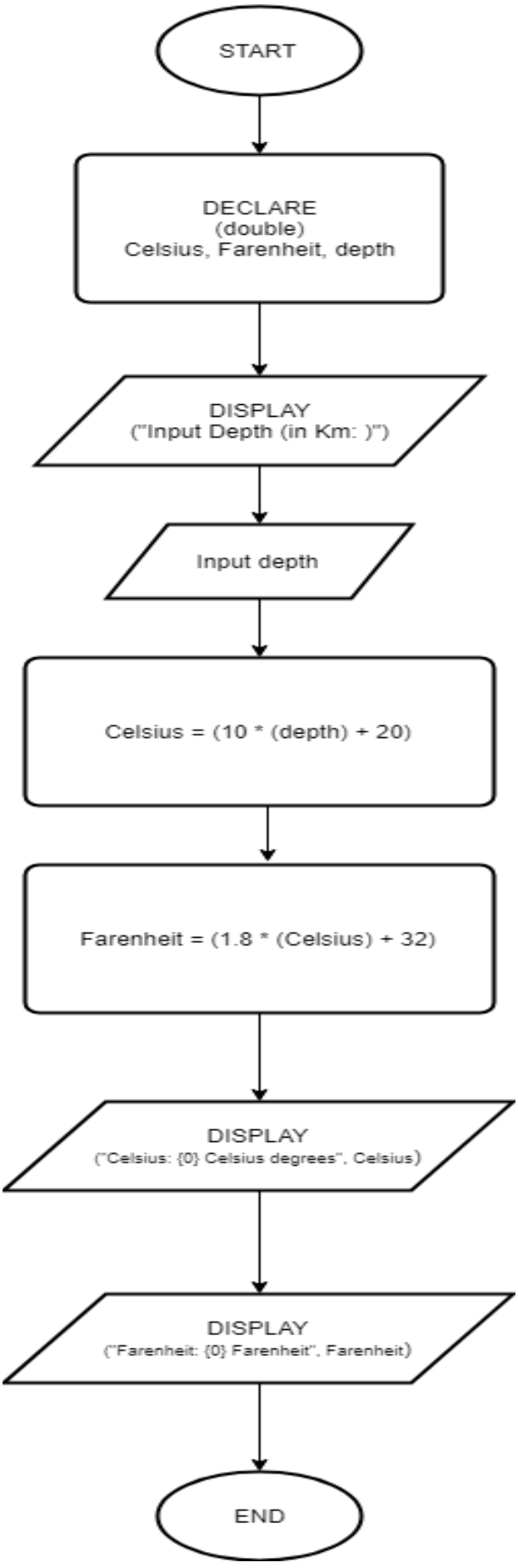
Celsius = (10 * (depth) + 20)

Fahrenheit = (1.8 * (Celsius) + 32)

DISPLAY “Celsius: {0} °C”, Celsius

DISPLAY “Fahrenheit: {0} F”, Fahrenheit




START
DECLARE
(double)
Celsius, Farenheit, depth
DISPLAY
("Input Depth (in Km:)")
Input depth
Celsius = (10 * (depth) + 20)
Farenheit = (1.8 * (Celsius) + 32)
DISPLAY
("Celsius: {0} Celsius degrees", Celsius)
DISPLAY
("Farenheit: {0} Farenheit", Farenheit)
END

Question 4

DECLARE (double) distance, estimatedDistancePerLitre, costPerLitre, cost, numberOfLitresRequired

DISPLAY “Input distance (in Km)”

INPUT distance

DISPLAY “Input kilometer per Litre estimate (in Km/L)”

INPUT estimatedDistancePerLitre

DISPLAY “Input cost per litre (in $)”

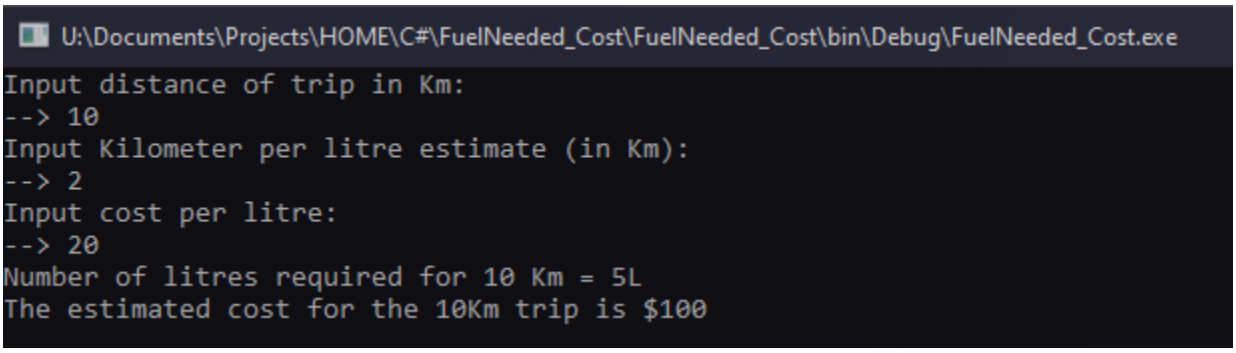
INPUT costPerLitre

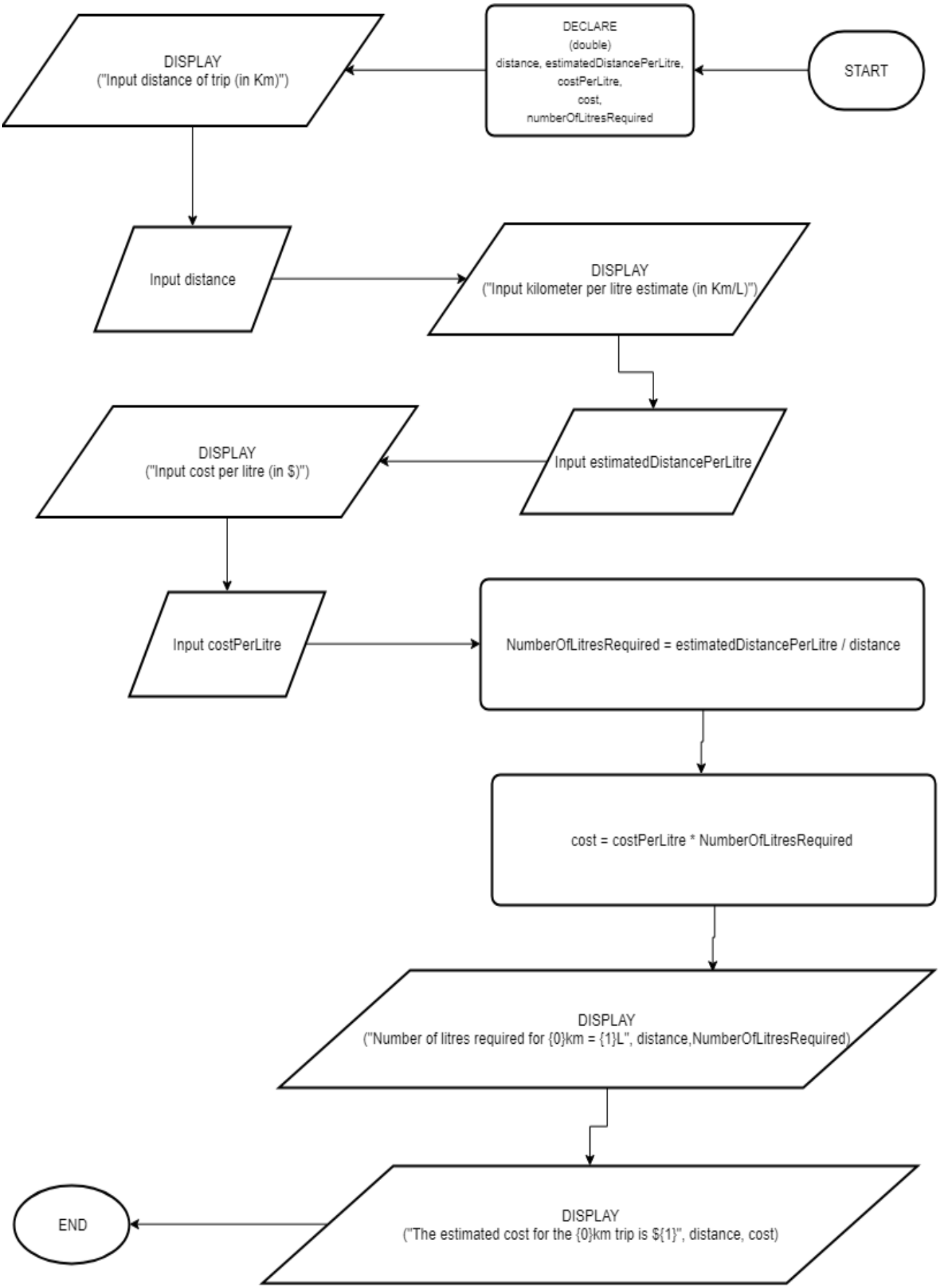
numberOfLitresRequired = (estimatedDistancePerLitre / distance)

cost = (costPerLitre * numberOfLitresRequired)

DISPLAY “Number of litres required for {0}Km = {1}L”, distance, numberOfLitresRequired

DISPLAY “The estimated cost for the {0}Km trip is ${1}”, distance, cost




START
DECLARE
(double)
distance, estimatedDistancePerLitre,
costPerLitre,
cost,
numberOfLitresRequired
DISPLAY
("Input distance of trip (in Km)")
Input distance
DISPLAY
("Input kilometer per litre estimate (in Km/L)")
Input estimatedDistancePerLitre
DISPLAY
("Input cost per litre (in $)")
Input costPerLitre
NumberOfLitresRequired = estimatedDistancePerLitre / distance
cost = costPerLitre * NumberOfLitresRequired
DISPLAY
("Number of litres required for {0}km = {1}L", distance,NumberOfLitresRequired)
DISPLAY
("The estimated cost for the {0}km trip is ${1}", distance, cost)
END