***NAME- RUTVIK MARAKANA***

***ASSIGNMENT-2***

* **Problem 1:-**

CLASS Cylinder

BEGIN

METHOD Volume

BEGIN

PI🡨3.14

READ input\_value for the radius and length of the cylinder

Radius🡨 input\_value of radius

Length🡨 input\_value of length

Area🡨Radius\*Radius\*PI

Volume🡨Area\*Length

PRINT Area of the cylinder is Area

PRINT Volume of the cylinder is Volume

END Volume

END Cylinder

* **Problem 2:-**

CLASS SumDigits

BEGIN

METHOD SUM

BEGIN

READ input\_value for an integer between 0 and 1000

Number🡨input\_value of the integer

Sum🡨 sum of individual digits of the Number

PRINT The entered number is Number

PRINT The sum of digits of the number is Sum

END SUM

END SumDigits

* **Problem 3:-**

CLASS Distance

BEGIN

METHOD Calculate\_Distance

BEGIN

READ input\_value for 2 points (X1, Y1) and (X2, Y2)

P1🡨 X2 – X1

P2🡨 Y2 – Y1

distance🡨 Square\_root [ (P1)^2 + (P2)^2]

PRINT The distance between 2 points is distance

END Calculate\_Distance

END Distance

* **Problem 4:-**

CLASS DrivingCost

BEGIN

METHOD Cost

BEGIN

READ input\_value for the distance to be travelled, car fuel effiencey and the fuel cost per gallon

Distance🡨 input\_value for the distance to be travelled

Mile\_PerGallon🡨 input\_value for the car fuel efficiency

Fuel\_Cost🡨 input\_value for the fuel cost per gallon

Trip\_Cost🡨 (Distance/Mile\_PerGallon)\*Fuel\_Cost

PRINT The distance travelled is Distance

PRINT The car fuel efficiency is Mile\_PerGallon

PRINT The fuel cost per gallon is Fuel\_Cost

PRINT The total cost of trip is Trip\_Cost

END Cost

END DrivingCost