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
```