(vi) Algorithm for shapes

step-1 : SET run = 1.

step-2 : Repeat step-1 while run = 1.

step-3 : SET Pi = 3.14.

step-4 : Input r, h from the user.

step-5 : switch for the value of choice.

step-6 : If the user enters 1.
SET Area = 2 * Pi * r * h + 2 * Pi * r * r
SET volume = Pi * r * r * h.
PRINT Area and volume.

step-7 : If the user enters 2.
SET Area = Pi * r * (r + sqrt (h * h + r * r))
SET volume = (Pi * r * r * h) / 3.
PRINT Area and volume.

step-8 : If the user enters 3.
SET Area = 4 * Pi * r * r.
SET volume = (4/3) * Pi * r * r * r
PRINT Area and volume.

step-9 : while run = 0 exit from the Program.

step-10 : PRINT Invalid shape and exit from the Program.