```
EXPERIMENT - 5
                                        1BM1903090
                                              RAHUL
a) prite a Cljava
                                    colculate volume
    and area of cylinder, lone, sphere.
ode:
   mindude & Stolio. h)
   + include Emath. h >
   void main ()
  the just a; z; it is endoubled it I have
      float h,r;
      fruit ( la Enter leight: ");
         printt ("Inln 1. Cylinder In 2. lone In 3. Sphere"),
   sanf ("/ 1", sh);
          print (" In Scheet any shape (1-3): );
          scanf (" /d , sa); (=) slike (
if (a ==1)
            print f ("In Enter height:");
            soary (" 1. f", 8h);
            -print (" / f", sh);
             prints ("In Enter nadius:"),
              scarf ("1.f", &1);
              printf ("\n Area = 1.f", (2*3.14 * r * h)+(2*3.14* r*r));
             printf ["In Volume = ·1.1", 3.14 * r * r * h).
          else if (a = = 2)
             print f ("In Enter Leight:");
              scarl(" 1.f", sh);
              print + ("In Enter radius:");
              scar ( " . 1. f ", &1);
```

Scanned with CamScanner

```
print f ("\n Area = 1. f", (3.14 * r*r)+
                      print f ("In Volume = 1.f", (3.14 + 1 + 1 + h) 13).
                 else if (a = = 3)
                     print f ("In Enter radius: ") j' cités
                      scarf (" 1. f", 2r):
                       print f (" \n Area = " f", (4 * 3.14 * r * f)).
                        print f ("In Volume = 1. f", (4. " 3.14 + r+r+r)/3
                   else
                      print f ("In Enter valued, choice (1-3)!").
                   Printf ("In Press ( to continue or Press o to stop");
             Scarf ("/d", &z);
             3 while (z);
printf ("In Thank you");
                      Mary C. In Erich bright: " )
( 1 ( 1 2 2) 1 ( 2 1 2 M. 5 2 3) ( Th 124. 1/1)
        Character C. La Malance - 12 L. S. H. a. L. S. H. S. L.
                     middle (" he total sight :" )"
                          * (12. 7.1. M. m.
                          (1) 1 1 1 m
```

VO 1: - 11

```
#include<stdio.h>
#include<math.h>
void main()
    int a,z;
     float h,r;
        printf("\n\n1.Cylinder\n2.Cone\n3.Sphere");
printf("\nSelect any shape(1-3):");
scanf("%d",&a);
if(a==1)
             printf("\nEnter height:");
scanf("%f",&h);
printf("\nEnter radius:");
scanf("%f",&r);
printf("\nArea=%f",(2*3.14*r*h)+(2*3.14*r*r));
printf("\nVolume=%f",3.14*r*r*h);
          }
          else if(a==2)
             printf("\nEnter height:");
scanf("%f",&h);
printf("\nEnter radius:");
scanf("%f", 2n);
             scanf("%f",&r);
printf("\nArea=%f",(3.14*r*r)+(3.14*r*sqrt(h*h+r*r)));
printf("\nVolume=%f",(3.14*r*r*h)/3);
         else if(a==3)
             printf("\nEnter radius:");
scanf("%f",&r);
printf("\nArea=%f",(4*3.14*r*r));
printf("\nVolume=%f",(4*3.14*r*r*r*r)/3);
          }
   printf("\nEnter valid choice(1-3)!");
printf("\nPress 1 to continue or Press 0 to stop");
scanf("%d",&z);
}while(z);
printf("\nThank you");
```

VolAreaShape.c ≜

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```
1.Cylinder
2.Cone
3.Sphere
Select any shape(1-3):1
Enter height:36
Enter radius:25
Area=9577.000000
Volume=70650.000000
Press 1 to continue or Press 0 to stop1

    Cylinder

2.Cone
3.Sphere
Select any shape(1-3):3
Enter radius:5
Area=314.000000
Volume=523.333333
Press 1 to continue or Press 0 to stop0
Thank you
Process finished.
```

```
1.Cylinder
2.Cone
3.Sphere
Select any shape(1-3):5

Enter valid choice(1-3)!
Press 1 to continue or Press 0 to stop
```

## × Terminal

```
1.Cylinder
2.Cone
3.Sphere
Select any shape(1-3):2
Enter height:4
Enter radius:20
Area=2536.873702
Volume=1674.666667
Press 1 to continue or Press 0 to stop0
Thank you
Process finished.
```