```
EXPERIMENT-4 18MIGCS090
                                  RAHUL
a) Write a C/Java program to accept a number n
from the user and print in rious of output as
   given below if n=4.
        ( at < (13 + x & ray (134)) 3 + 6 x
code:
   # include ( stdio. h )
   void main ()
      int a [wo] [wo] i, j, n, z=1;
print f ("Enter Number of rows:");
 Scanf ("1.0", 2n);
      for (i=o; i<n; i++)
         print + (" (n").
       for (j=0; j \ =i; j++)
       prints (" /d " , Z++);
```

```
ArrPattern.c ♣
Saved

#include<stdio.h>
void main()

int a[100][100],i,j,n,z=1;
printf("Enter Number of rows:");
scanf("%d",&n);
for(i=0;i<n;i++)
{
    printf("\n");
    for(j=0;j<=i;j++);
    printf("%d ",z++);
}

printf("%d ",z++);
}
</pre>
```

```
Terminal
  ×
Enter Number of rows:11
2
  3
4 5 6
7
  8
    9
      10
11
   12
      13
          14 15
       18
16
          19
             20
                 21
22
   23
          25
       24
             26
                 27
                    28
29 30
          32
      31
             33
                 34
                    35
                       36
             41
37
          40
                    43
   38
      39
                 42
                        44
                           45
46 47
             50 51
                    52
                        53
      48
          49
                           54 55
56 57 58 59 60 61
                    62
                        63 64 65 66
Process finished.
```

```
RAHIL
EXPERIMENT - 3
a) write
           a C/Java program to accept CIE mark
     (out of 50) and SEE marks (out of 100)
     of a student and print his / her grade. Use if.
     else if ladder.
                           cvij 7 hi
Code:
   # in clude ( stdio. h)
   void main ()
      float a [5], b [5], c [5], t [5];
       char z;
       for Cent 120;165; itt) a despero dai
          printf ("In Enter CIE marks of subject "Id (out of 50):
           scarf (" 1.+", &a(i))
           printf ("In Enter SEE marks of subject 1.2 (out of 100):"
           scarf (" 1.f", & b[i]);
           cli] = bli)/2; taged in accident
           t[i] =a[i]+c[i];
           if (+[i] (=100 && +[i])=90)
              printf ("In Your Final marks for subject 1.d: 7.f. in
              print ( "In Your Grade for subject 1.d: 5", i+1);
           else if (t[i] (90 && t[i])=80)
               print f ("In Your Final marks for subject 1.d: 1.f 1+1
              printf ("In Your Grade for subject 1/d: A', i+1);
           else if ( tC; ] ( 88 tC; ] > ( = 70 )
              printf ("In Your Final marks for subject 1.d: 1f"it,
             print f (" In Your Grade For Subject 1.d: B", iti); t[i].
```

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```
else if (+Ci) < 70 88 +Ci) >= 55)
print f ("In Your Final marks for subject 1d: 1/1", it it is print f ("In Your Grade for subject 1/1. d : C", it is).
                              il = h ); osolad strift
       else, if (+ [i] <55 &8 + [i] >=40)
           printf ("In Town Final marks for subject 1.d: 1.f, i+1,
           printf ("In Your Grade for subject 1.d: Din (Lis);
       else if (t(i) 140 mst it (i) toi) on mi
          prints (" In Your final marks for subject 1/d: 1-f, i+1,
           printf ("In Your Grade for subject 1.d: F", i+1);
```

```
#include<stdio.h>
 void main()
    float a[5],b[5],c[5],t[5];
    for(int i=0;i<5;i++)
       printf("\n\nEnter CIE marks of subject %d(out of 50):",i+1);
scanf("%f",&a[i]);
printf("\nEnter SEE marks of subject %d(out of 100):",i+1);
scanf("%f",&b[i]);
c[i]=b[i]/2;
t[i]=a[i]+c[i];
if(t[i]<=100.88 +[i]>=00)
        if(t[i]<=100 && t[i]>=90)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:S",i+1);
        else if(t[i] < 90 \& t[i] > = 80)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:A",i+1);
        else if(t[i] < 80 \& t[i] > = 70)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:B",i+1);
        else if(t[i]<70 && t[i]>=55)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:C",i+1);
        else if(t[i] < 55 \& t[i] > = 40)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:D",i+1);
        else if(t[i] < 40 \& t[i] > = 0)
           printf("\nYour Final marks for subject %d: %f",i+1,t[i]);
printf("\nYour Grade for subject %d:F",i+1);
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```

gradeOfsub.c 🖴

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Enter CIE marks of subject 1(out of 50):40

Enter SEE marks of subject 1(out of 100):42

Your Final marks for subject 1: 61.000000 Your Grade for subject 1:C

Enter CIE marks of subject 2(out of 50):32

Enter SEE marks of subject 2(out of 100):49

Your Final marks for subject 2: 56.500000 Your Grade for subject 2:C

Enter CIE marks of subject 3(out of 50):45

Enter SEE marks of subject 3(out of 100):95

Your Final marks for subject 3: 92.500000 Your Grade for subject 3:S

Enter CIE marks of subject 4(out of 50):24

Enter SEE marks of subject 4(out of 100):30

Your Final marks for subject 4: 39.000000 Your Grade for subject 4:F

Enter CIE marks of subject 5(out of 50):40

Enter SEE marks of subject 5(out of 100):86

Your Final marks for subject 5: 83.000000 Your Grade for subject 5:A Process finished.

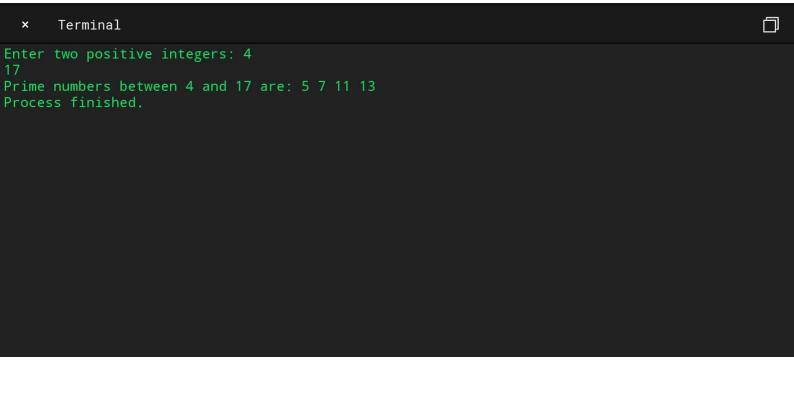
门

RAHL

0) Write C/Java prog to print the prime runbers b/w gn two integers (inclusive). Accept 2 integers from user.

```
code'.
  # included stdio. h>
    int Prince (int ,)
        int j, fl = 1;
         for (j = 2; j \ zn (2; ++j)
           if (n:/-j ==0)
               fl=0;
           int 11, 112, Fl; .
            print f (" Finter two positive integers: ");
             scorf (" 1.d .1.d"), 201, 202).
             print f ( Prime numbers between 1.d and 1.d
                                         ace: ", n1, n2);
             for (i=n) +1; i < n2; ++i)
                fl = Prime (i);
                if (fl == 1)
                  prient f (" 1.d ", 1).
             retur 0;
```

```
PrimeNos.c A
                                                      ⇒
           Saved
  #include<stdio.h>
  void main()
  {
     int n,j,k=0;
     printf("Enter Number Of Rows:");
scanf("%d\n",&n);
     for(int i=1;i<n;i++)</pre>
     {
       if(i\%2!=0)
       for(int j=k+1;j<k+i;j++)</pre>
       {
       printf("%d\n",j);
       k=++j;
       else
       {
          k=k+i-1;
          for(j=k;j>k-i+1;j--)
          printf("%d\n",j);
23 }
```



```
x Terminal

Enter two positive integers: 2
9
Prime numbers between 2 and 9 are: 3 5 7
Process finished.
```

```
EXPERIMENT - 5
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                                             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; he colored it 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);
```

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```
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 - 1. L. S. H. a. L. A. L. S. H. S. L.
                     middle (" he tota Injul :" )"
                           * (12. 7.1. Mr. m.
                           (1) 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", %n);
             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.
```