22/09

```
3. Write a choprogram to accept a number n
    from the user and print in shows of
      output as given belove if n=4
          8 9
                   10.
  # include < stdio. n>
     Int main ()
         int i, n, j, vol=1;
         print[ (" Enter the value of n \n");
         Scanf ("%.d", &n);
          for (i=1; i<=n', i++)
             fon (j=1 ', j<=i', j++)
              $ print[ [ " % d 1+", val);
            val++,
3
print(("\n");
```

4. Write a C program to accept the CIE marks (out of 50) and SEE marks (out of 100) of a student and print his her grade. [use if - elseif] #include < stdio. h> int main () int CIE, SEE; float total; frint (" Enter the CIE marks out of 50: \n"); Scary (4 1. d , becle); print ("Enter the SEE marks out of 100: \n"); Scarf (4.1.d4, & SEE), total = CIE + (SEE12.0); if (CIE>= 20 && SEE >= 40) if (total > 90 && total = 100) print ("Grade obtained is s"); else if (total > 80 kk total <= 90) print ("Grade obtained is A"); elser if (total > 70 kl total <= 80) print ("Grade obtained is B"); else if (total > 60 kk total <= 70) print ("Grade obtained is ("), else if (total > 50 kk total < = 60) print ("Grade obtained is D"); 3 prints (" Grade Obtained is E");

Scanned by Easy Scanner

```
else if (CIE>=20 kk SEE<40)

print ("Grade obtained is F");

else
print ("Not eligible \n");

3

5. Write a C program to print the prime
rumbers between given two integers.
Accept these two integers from the
wer.

# include < stdio.h>
int main()
```

```
int love, high, n',
 int Count;
 int div ,
print ("Enter the stant number of the range" In")
 Scanf ("1. d", Klow);
print ("Enter the end number of the sange: m");
 scanf ("1.d", knigh);
print[ "The prime numbers between the given range are: \n");
for (n= low; n <= high ', nft)
       int Count = 0;
       609 (div=2, div*div<=n; div+f)
              il (n-10div = =0)
```

```
count ++;
break;

{

(Count == 0)

{

print (" * d ++", n);

}
```

b. Write a C program which prints the area and volume of any one of the given shapes given below. Accept the choice of the shape, appropriate inputs from the user, Calculate and display the area and the volume of the Same. Repeat this with different shapes till the user wishes to stop.

Cylinder: Area =  $2\pi r_1h + 2\pi r_2^2$  Volume  $V = \pi r_1^2h$ Cone: Area =  $\pi r_1(r_1 + \sqrt{(h^2 + r_1^2)})$  Volume  $V = \pi r_1^2h/3$ Sphere: Area =  $4\pi r_1^2$  Volume  $V = (4/3)\pi r_1^3$ 

# Include < Stdio. h>

# Include < Stdio. h>

Int main()

Int choice;

Conet front pi = 3.14;

front area, volume;

```
int 91, 912, 93;
inthl, h2;
Char ch;
  print ( " Select your choice from the options
           given belove: \n");
  print (" 1. cylinder in 2. cone in 3. Sphere in ");
  Scanf (" of d", & choice);
  print (" Enter the radius: In");
  Scanf (" %d", k 21);
  prints (" Enter one height: \n");
  Sang (4%.d4, &h1);
  Switch (choice)
  case 1:
     print ("For ey linder: In");
    area = [(2* pi * 91 * h1)+(2* pi * 91 * 71)];
     Volume = (pi * 21 x 21 x n1);
   print (" Area of cylinder = 1/2 fln", area),
    frint (" volume of cylinder = 10/1 n', volume);
     break ,
 Case 2:
 print (" For cone: \n"):
 area = ((pi * 92) * (91+ (squt ((h)*h2)+(11*92)))
  Volume = ( bi * 91 * 60 91 * h1)/3;
  prints ("Area of conez 1. fln", area);
```

```
break;
 Case 3:
   print ("For sphere :\n");
   area = 4 + pi x n x x n;
   Volume = (('4/3) * pi *4/ *91 *91));
   print ("Area of sphere = 1/4 \", area),
    print (" volume of sphere = 1.1 \n", volume);
    break;
   défault:
     prints (" Please input correct choice is In");
     break;
  prints ("To continue press y: \n");
   Scary ("1.5", kch)",
  while (ch = = 'y' 11 ch = 'y');
```