Practice Programs for OOT Tab-Week 2 [cprograms]

3 write a c program to accept number of from the user and print n rows of output as given below if n=4.

1 (++|(&+|(1+1+1+1) 23 456 78910 ([1]ax[a]

z returno;

#include < stdio. h> int main() int i, j, n, k=1; prints ("anter the number of rows \n"); scanf (" fod", sn); for (i=1; i=n; i+t) for (j=1; j<=i; j++) f print ("1,d", k); fuit ("\n")

I 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 ... elsely ladder. #include a stdio, h> int main () int CIE, SEE; float tot; print ("Enter the CIE[50] and SEE[100) marks of the student suspectively 'n"); scarf ("/d/d", & CIE, & SEE); tot = (SEE 12.0) + CIE; if (CIE>=20 28 SEE>=40) if (tot >89 & 2 :tot <=100) print (" grade: 5"); else if (tot >7922 tot<=89) frints ("Grade: A"); use if (tot >69 && tot <=79) punts ("Grade: B"); else if (lot >59 && tot <=69) prints ("grade: c");

else if (tot > 49 22 tot <=59) frints ("Grade: 0"); else prints ("Grade: E"); the if (CIE>=2018SEE240)
print ("Grade: F"); else prints ("Not eligible, grade not applicable") returo; (5) Write a c program to print the prime number between given two integers (inclusive). Accept these two integers from the weer. #include < stdio.h> int main () int low, high, flag, i; prints ("Enter two numbers [intervals]:"); Scanf (".1.d. 1.d", & low, & high); prints ("Prime mumbers between 1/d and 1/d are: ", low, high);

while (low z = high) flag=0; me all to me and the day if (low <= 1) from the turn, colourate of the explane of the same begad by with gets low ++; in were not that segul streetful continue; for (i=2; i=low/2; i+t) if (low %, i ==0) + = 4 : 11 to white l flag = 1; if C flag= =0) frintf ("1,d", low); low ++; return o; funt ("tenter the shores of whope ") !! frint ("1, Equindris 2: Conclus splacing bush [" 1 9") yes

6) 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 différent shapes till the user wishes to stop. Ceylinder: Alea: A=2Trh+2Trl Volume: V=Trh Cone: Alea: A= TR(1+ J(h2+12) Voleme: 1/2 MRih spher: Ala: A=4T12 Volume: V= 4/3 T23 # include c etdio, h # include < math. hs # include < stdlib. hs int main () (0==pol)) fi intc=4; float a, v, r, h; intc=4; while (c) prints ("Enter the choice of shape: \n"); prints ("1. Eylinder in 2. Core In 3. Sphere (no. Exitin)

scarf ("./.d", &c);

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switch(c)
case 1: prints ("Enter radices: \n");
            scanf ("/ f", & A);
             prints ("Enter height: \n")
             scarf ("/.f", &h);
        a=(2*3,14*x*h)+(2*3,14*x*x);
            V= (3.14*x*x*h);
          print ("Alea: / f \n Volume: / f \n",a,v);
      case 2: peint ("Enter eadius: \n");
           siary ("1.f",&x);
           prints ("Enter height:\n");
           scarf ("1.f", &h)
          a=(3.14" N)"(x+sqrt((hth)+(r+x)));
          V= (3,14*x*x*h)/30;
         prints ("Alea: "/ f \n Volume: / f \n", a, v);
     case 3: prints ("Enter radius: \n");
             scarf ("1,f", & x);
             a= 4 3.14 12;
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V=(4"3.14 * 2*2 x) 13.0; prints ("Area: "/ of \n Volume: "/ of \n", a, v) break; case o: print ("Esuit (n"); exit (0); default: printf ("Invalid choice (n"); pury ("Aleast for Volume: 4. f 1 [" ,a, v); returno; yearl (to listy) 4= (314 , 1) , (7+ A/2 ((2, 4) + (12, 2))? [cont for the the following the form, as v);