HEMANG SING Practice - 2 1BM19 CS061 6) C-Program which prink the area & the Volume of any shape of user's choice. flood or, h, evera, volume, Const float pi = 3.14 ; print [" for which Shape do you want to Colculate Area & Volume: 14"); print (" In OPTIONS: In 1- Cylinder In 2- Come In 3- Sphere In "); scanf (" % d ", 2 opt); switch (op+) { print | " | u Enter the radius of Cylinder: "); 8 couf (" ", f x); print (" Enter the height of Cylinder : "); Scoul (" ", f", 2 &); area = (2*pi*s1*R) + (2*pixs1xs)? Noturn = bix 21 x 21 x 6 3 printf (" In Asiea: "/of", area); print (" la Volume: 90 + ") volume). (y break;

include (Stdio.h)

include < math. R>

jut opt ;

char ch;

do 2

jut main()

Case 2 : printf |" In Enter the radius of Cone : "); Scouf (" of ", 2 x); printf (" (a Enter the height of (one "); Scarf (" 1.f", & h); 10/min = pix xx xx x (h/3); anea = pi * n * (n + sqnt ((u * u + n * * * 1)); print |" la Area : "of", oreal; print (" la Volume: 7.4 "3, volume); break; prout (" In Enter the radius of sphere:") Case 3: sconf (" y.f ", & x1; pointling anea = 4 * pi * n * n; Volume = (4/3) * pi * x * x *x ; print (" In Area: ".f", area); print (" la Volume : Y.f ", volume)) break; default : Enter a volid option!!"); print (" In Do you would to repeat the print (" In Do you would to repeat the scoud (" 1.5", 2ch); while (ch == 'J' | | ch == (7) |; oretura o;

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Practice - 2 18022PIMB1 7) C- Prog to Court the no. of 8td. registerd for three courses. # include < 8tdio. w> Struct Student & char name [20]; int choice; [int choice 1; 3 8+ [100]; int main! int i, n; int chel= 0; int C2 = 0; (of c3 = 0) printf (" Enter the number of Students: In"); 8 couf (" Y.d", &u); for (i = a; i < n; i++) privité ("Enter the name of the Students: Scarf (" Y.S", & st [i]. name); Scarf (" Y.S", & St. (")

print (" lulu The following one the elective choose! lu"); a

the Student can choose! lu"); a

print f (" lu 1. ‡ OT lu 2. Adv. Java lu 3

print f (" lu 1. ‡ OT lu 2. Adv. Data DS lu"); Scouf (" Y.d", & 8+[i]. «hoice); 1 + (St[i]. choice ==1) { print (" Y.S choose I ot course I 2. (man. Ei]+2, "ul

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else if (st [i]. choice == 2) {
         printf (" V.S choose Adv. Java Courselu",
                                               St[i]. name);
          probable "Y.S choose Adv. D.S lu", st[i]. name);
   else if (st[i]. choice = = 3) {
         printf (" In Invalid option");
privité ("In The total number of students opting
for IOT are " "d lu", c1);
printf (" In The Total number of students opting
            for Adv. java are: 1.2 ", (2);
 print (" lu The total no. of students opting
for Adv. D.S. 'y.d'u", C3);
  printf (" lult lt ** * Students in IoT * * * ");
  for (i = 0; i < u; i++)
     if ( st [i]. Redroice = = 1)
              printf (" lu Y.S", st [i]. name !;
    printf (" Jult It * * * Students in Adv. Java ***)
     for (i=0; i < w; i ++)
          if (st [i]. choice = = 2)
                  print (" (u 1.3", st [i], name);
    printf (" In 1 + 1 + * Students in Adv. D. S ***)
       for (i=0; i< w; i++)
```

```
if ( stil. choice = = 3)
                                                                                                                                                                                                                   printf (" /u 1.5", st [i] . name);
if ( c1 < 5 11 < 2 < 5 11 < 3 < 5)
                                                                   then you

than you

the food: \land 
                                                         printf (" In/a The number of Students one
                                                            for(i=0;i< w;i++) &
```

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printf (" The total us. of students opted
                                         for Adv. D. S. %d", C);
                     printf (" /u/t/t * * Students in IOT **
                                                                              (" ");
                   for(i=0; i< x; i++)

if (st[i]. choice ==1)

printf(" in Y.S"; st[i]. nom);

printf(" in It it * * 8 tudents in Adv.

Tava * * in");

Tava * i++)
                        for( i = 0; i < n; i++)
                             f if (8+Ci]. venchoice = = 2)

printf(" \n Y.S", &+Ci].name);
                       print | "(n) t | t * * 8 tudents in Adv.

D. S * * * (n");

for (i=0; i< n; i+t)
                                  if (st[i]. choice == 3)
printf (" \n y. 8", st[i]. name);
}
while ( c1 < 5 11 C2 < 5 11 C3 < 5 );
}
```