```
#include <stdio.h>
int main () 5
    int mound, i, j, ourmber = 1; no, nember = 1;
   print f (" Enter number of raws: ");
    sconf (" ".d , 8 m);
   for (i=1; i <= n; i++){
     for (j=1; j<=i; ++j){
        printf (" xd", number);
 return o.
```

```
a) #include < stdio. h>
  struct Subject &
      int CIE;
      int SEE;
     int total;
    Chargrade;
                   in I day to discuss of whole
 int main () 5
     int i=o;
   Struct Subjects subjects [5];
  for (i=0; i<6; i++) {
    printf ("Enter CIE marks for student >d: 温",
              i+/1) student
    8 conf (" 1.d", 28 fa dents [i] . CIE);
   Printf ("Enter SEE marks: ");
   8conf ("".d", & students (i). SEE);
   P students (i) total = students EE (i). CIE +
                      students [i]. SEE;
```

```
if (students [i]. total < 10)}
           print print (" Error: marks helow 0");
    Seles if (students [i] total < 40) §
           Students[i]. trade = 'F';
    I else if (students [i]. total > 40 BB students (i) total 51)}
           students [i]. grade = 'pe';
  Felseif (students [i], total > 50 && students [i]. total < 61) {
           Students [i] grade = 1);
 3 else ig (students [i]. total > 60 & & students [i]. total < 70 §
             students (i]. grade = 'c';
3 else if (students [i]. total>70 EC. Students [i]. total < 91) {
             students [i] grade = 'B';
3 else if (students [i]. total x>80 & & students 1. total x>91) {
             students (i). grade = 'A';
3 else {
        students [i]. grade = 151;
```

```
for (i=0; i<6; i++){
  printf("grade of student ".d is ".c"3, i+1,
          student [i].grade);
returno;
```

```
3) int #includ coldio.h>
     intrusin () 9
       int a, b, i, j, flag;
     printf (" Enter lower lound;");
      Sconf ("1.d", 6a);
    printf ("Enter upper bound: ");
    sconf ("r.d", &6);
    printf ("Prime numbers between & 1.d one 1 dare",
  for (i = a; i = b; i+);
       if (i==] [ i==0).
             Continue;
  flag =1;
```

for (j=2; j < -i/2; j +) {

if (i)', j = -o) {

flag = 0;

freak;

}

if (flag = 1)print "/d", i);

return 0;

```
#include < menths h>
  #indude astdio.h>
 # in dude < std lib.h>
 # desine PI 3.14
Voi d main () 5
    int ran= I;
   while (run = 1) }
      float area, volume, v. chaice, ho;
    Printf ("Enter radius: ");
8 conf ("; d" & 27), Printf ("Enter heigh: ");
   sconf (",d",& 87).
 printf(1-Cylinder) n2-Cone n 3-Sphere n4-Exittens
 Sconf (" "-d" schaice)";
 Switch (choice) 3
  case 1: 5
        area = (2*pI*x*h)+(2*70PI*(x*x));
        Volume = PI * (r*r)*n;
      print + 7 " Area of Cylinder is ", f, Volume of
               Cylinder is ", f", area, volume");
  ટુ
cuse 2; 5
       area = PI* +* (++89+6 (h*h)+(+*));
      volume = (PI* r*r*h)/3;
      PTO
```

```
print for Area of cone: Y. of ond Volume of
           Cone: "Af, area, volunce);
 case 3:5
      area = 4* PI*~*~;
      valunce = (4/3) * PI* *** * ,
    printf (" Area of sphere is 1.4 and Volume of
      Spherie is ! of area, nohume);
default:
      printf ("wrong Input").
     exit(o);
       more to a commer to make it to 14
    ・人は、「からなっ」 しっという オテザエリニング
                 · Chartentin com
```

```
5) #include <stdio.h>
   struct Student &
        char mome [40];
        int elective:
int main () }
        int i, j, choice, n;
       int count E37 = {0,0,03;
     char electives [3][40] = \[ -"IOT, "Advanced Java" \]
     Printf ("Enter nemler of students:");
      sconf (" ", d.", &n);
    struct Student student [n];
   for (i= 0: i<3; i++) {
       print ("\n.1.d-1-8", i+1, electeris [17);
```

```
for (i=0; i< n; i++){
   print f ("In Enter the name of the studen: ");
    sconf (" y. 8", student (i]. nome);
   printf ("in Enter the chaire: ");
   Sconf ("Y.d", & student [i]. electric);
for (i=0; i<n; i++){
        if (student [i]. electric == 1) {
               count[o]++;
        3 else if (student [i] elective == 2) {
               Count [1]++;
        } else g
             count [2]++;
  printf ("operation 1\n");
 print f (" Enter the chaice of electric you want to get
           list offer : (n");
 Sconf ( 1/1 d, &x);
```

```
for (i = 0; i < m si ++ ) {
    if (student [i]: electure = = 2)5
           prints ("> x.8 m", student [i]. nome);
printf ("operation 2\m");
 print f ("Number of students in 1. 3 electure: ",d\n",
          electries [0], count [0]);
print f ("Number of students in 1.8 electricis".d\n",
         electricis [1], count (I]);
prints (" Number of students in % s electuie: /d/n",
         electricis [2], count [2]);
print { ("Operation 3\n");
 i + (court [0] < 30) 9
      printf (" " & students must choose onother
              electure due to less number \n", electris [0]);
      print f (" choose between Advanced Jane (2) and
                JZEE (3) \n");
      8conf ("%d", & chaice);
```

```
for ( i= 0; i<n; i++){
       if (student (i). electric==1) ?
            Student [i]. electrice = choice;
             Count [07 -- ;
             Count [choice-1]++;
if (count [1] < 30){
       printy ( " ", & students must choose onother
               electure dere to less number", electues (17);
      printf("chose between 10T (1) and JZEE (3) \n"/;
      sconf (" 1.d; & chaice);
       for ( i=0; icn; i+1) }
           if ( student [i], electrice == 2) {
               student [i]. electrice = choice;
         Count [1] --.
       3 count [chaice -1] ++;
```

```
1 + (count [2] <3) S
          printf ("Y.s students must choose onether
                  electure due to less nember n'is
                  electuis (2]);
        print f l'achoose lecturen Advanced Java
                 IOT(I) and Ad vonced Java (2)(n");
       Sconf (". Id", & choice);
       for (i=0; i<n; c++){
            if (student [i], electrice == 3) 5
               Student [i]: electrice = choice;
               count [2] --:
              count [chaice -1]++;
 printf ("Number of students in x selectric is x.din,
          electries [6], count (0]);
print f ("Number of students in ", s electues is ", d\n";
         electreis [7], Count [1]);
print f ("Numeleer of students in 1. 8 electrices is 7.d\n",
         electrois [2], count [2]);
```

```
printf ("Operation + vn");
 for (i=0; i<3; i++){
       printf (" on Students in 1, 5: \n", electeris [i]);
       for (j=0; j<n; j++) {
                if (student [j]. electure == (i+1)) {

print f ("> y.s\n", student [j]. nonie
```