```c
#include<stdio.h>

int main()
{
    int n;
    printf("Enter a number:");
    scanf("%d",&n);
    int i,j;
    int k = 1;
    for(i=1;i<=n;i++)
    {
        for(j=0;j<i;j++)
        {
            printf("%d ",k);
            k++;
        }
        printf("\n");
    }
    return 0;
}
```

Compile Result

```
Enter a number:4
1
2 3
4 5 6
7 8 9 10

[Process completed - press Enter]
```

```
nclude<stdio.h>

t main()

  float cie_marks, see_marks;
  printf("Enter cie and see marks:");
  scanf("%f %f",&cie_marks,&see_marks);
  float total = cie_marks + (see_marks/2
  printf("The Grade of student:");
  if(total>=90)
      printf("S\n");
  else if(total>=80 && total<90)
      printf("A\n");
  else if(total>=70 && total<80)
      printf("B\n");
  else if(total>=60 && total<70)
      printf("C\n");
  else if(total>=50 && total<60)
      printf("D\n");
  else if(total>=40 && total<50)
      printf("E\n");
  else
      printf("F\n");

  return 0;
```

Compile Result

```
Enter cie and see marks:48 80
The Grade of student:A

[Process completed - press Enter]
```

```c
#include<stdio.h>

int main()
{
    int a,b;
    printf("Enter two integers:");
    scanf("%d %d",&a,&b);

    int i,j,k;
    printf("The prime numbers between %
    for(i=a;i<=b;i++)
    {
        for(j=2;j<=i/2;j++)
        {
            if(i%j==0)
            {
                k=0;
                break;
            }
            else
                k=1;
        }
        if(k==1)
            printf("%d\n",i);

    }
    return 0;
}
```

Coding C

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RUN MENU

```c
#include<stdio.h>

int main()
{
    int a,b;
    printf("Enter two integers:");
    scanf("%d %d",&a,&b);

    int i,j,k;
    printf("The prime numbers between %d and %d:\n",a,b);
    for(i=a;i<=b;i++)
    {
```

Tab {} "" ; ↺ ⇧ ↻

= \ & , ⇦ ⇩ ⇨

```
Enter two integers:5 23
The prime numbers between 5 and 23:
5
7
11
13
17
19
23

[Process completed - press Enter]
```

```c
#include<stdio.h>
#include<math.h>

int main()
{
    int m,i;
    printf("1: Find the volume and area
    printf("2: Find the volume and area
    printf("3: Find the valome and area
    printf("4: to quit\n");
    while(i)
   { printf("enter your choice\n");

    scanf("%d",&m);


    if(m==1)
    {
```

```
23      c=(2*3.14*b*a)+(2*3.14*b*b);
24      d=3.14*b*b*a;
25      printf("the volume and area of cylin
26
27      }
28      else if(m==2)
29      {
30      int e,f;
31      float g,h;
32      printf("enter the values of height a
33      scanf("%d%d",&e,&f);
34      g=3.14*f*(f+sqrt(e*e+f*f));
35      h=(3.14*f*f*e)/3;
36      printf("the volume and area of cone
37
38      }
39      else if(m==3)
40      {
41      int j;
42      float l,o;
43      printf("enter the value of radius\n"
44      scanf("%d",&j);
45      l=4*3.14*j*j;
46      o=(4*3.14*j*j*j)/3;
47      printf("the volume and area of spher
48      }
49      else if(m==4)
50       break;
51      else
52      printf("entered invalid choice\n");
53      }
54
55      return 0;
56  }
```

```
1: Find the volume and area of cylinder
2: Find the volume and area of cone
3: Find the valome and area of sphere
4: to quit
enter your choice
1
enter the values of height and radius of
 the cylinder
2 3
the volume and area of cylinder are 56.5
20000,94.199997
enter your choice
3
enter the value of radius
5
the volume and area of sphere are 523.33
3313 314.000000
enter your choice
4

[Process completed - press Enter]
```

```c
#include<stdio.h>
#include<string.h>

int main()
{
    const int n;
    printf("Enter the number of students
    scanf("%d",&n);
    printf("Choose the option:\n");
    printf("1 - Internet of things\n");
    printf("2 - Advanced Java\n");
    printf("3 - Advanced Data Structures
    char names[n][20];
    int choice[n];
    char iot[n][20];
    char aj[n][20];
    char ads[n][20];
    int iotc=0,ajc=0,adsc=0;
    int i;
    printf("Enter the names of choice of
    for(i=0;i<n;i++)
    {
        printf("%d:",i+1);
        scanf("%s %d",names[i],&choice[i
    }
    for(i=0;i<n;i++)
    {
        if(choice[i] == 1)
        {
            strcpy(iot[iotc],names[i]);
            iotc++;
        }
        else if(choice[i]==2)
        {
```

```
        }
        else if(choice[i]==2)
        {
            strcpy(aj[ajc],names[i]);
            ajc++;
        }
        else if(choice[i]==3)
        {
            strcpy(ads[adsc],names[i]);
            adsc++;
        }
    }
    printf("The students in iot:\n");
    for(i=0;i<iotc;i++)
        printf("%s\n",iot[i]);
    printf("The students in aj:\n");
    for(i=0;i<ajc;i++)
        printf("%s\n",aj[i]);
    printf("The students in ads:\n");
    for(i=0;i<adsc;i++)
        printf("%s\n",ads[i]);


    if(iotc<5)
    {
        printf("The number of students a
        int choice_iot[iotc];
        for(i=0;i<iotc;i++)
        {
            printf("%s:",iot[i]);
            scanf("%d",&choice_iot[i]);
        }
        for(i=0;i<iotc;i++)
        {
```

```
        for(i=0;i<iotc;i++)
        {
            if(choice_iot[i]==2)
            {
                strcpy(aj[ajc],iot[i]);
                ajc++;
            }
            else if(choice_iot[i]==3)
            {
                strcpy(ads[adsc],iot[i]);
                adsc++;
            }
        }
    printf("The students in aj:\n");
    for(i=0;i<ajc;i++)
        printf("%s\n",aj[i]);
    printf("The students in ads:\n");
    for(i=0;i<adsc;i++)
        printf("%s\n",ads[i]);
    }

    else if(ajc<5)
    {
        printf("The number of students a
        int choice_aj[ajc];
        for(i=0;i<ajc;i++)
        {
            printf("%s:",aj[i]);
            scanf("%d",&choice_aj[i]);
        }
        for(i=0;i<ajc;i++)
        {
            if(choice_aj[i]==2)
```

```
93          }
94          for(i=0;i<ajc;i++)
95          {
96              if(choice_aj[i]==2)
97              {
98                  strcpy(iot[iotc],aj[i])
99                  iotc++;
100             }
101             else if(choice_aj[i]==3)
102             {
103                 strcpy(ads[adsc],aj[i])
104                 adsc++;
105             }
106         }
107     printf("The students in iot:\n");
108     for(i=0;i<iotc;i++)
109         printf("%s\n",iot[i]);
110     printf("The students in ads:\n");
111     for(i=0;i<adsc;i++)
112         printf("%s\n",ads[i]);
113     }
114
115     else if(adsc<5)
116     {
117         printf("The number of students
118         int choice_ads[adsc];
119         for(i=0;i<adsc;i++)
120         {
121             printf("%s:",ads[i]);
122             scanf("%d",&choice_ads[i]);
123         }
124         for(i=0;i<adsc;i++)
125         {
126             if(choice_ads[i]==2)
```

```
113     }
114
115     else if(adsc<5)
116     {
117         printf("The number of students a
118         int choice_ads[adsc];
119         for(i=0;i<adsc;i++)
120         {
121             printf("%s:",ads[i]);
122             scanf("%d",&choice_ads[i]);
123         }
124         for(i=0;i<adsc;i++)
125         {
126             if(choice_ads[i]==2)
127             {
128                 strcpy(iot[iotc],ads[i])
129                 iotc++;
130             }
131             else if(choice_ads[i]==3)
132             {
133                 strcpy(aj[ajc],ads[i]);
134                 ajc++;
135             }
136         }
137     printf("The students in iot:\n");
138     for(i=0;i<iotc;i++)
139         printf("%s\n",iot[i]);
140     printf("The students in aj:\n");
141     for(i=0;i<ajc;i++)
142         printf("%s\n",aj[i]);
143     }
144     return 0;
145
146 }
```

```
Enter the number of students:5
Choose the option:
1 - Internet of things
2 - Advanced Java
3 - Advanced Data Structures
Enter the names of choice of students:
1:Ananth 2
2:Ranjan 1
3:rajesh 3
4:sumedh 2
5:suraksha 1
The students in iot:
Ranjan
suraksha
The students in aj:
Ananth
sumedh
The students in ads:
rajesh
The number of students are less in iot,
please choose other courses.
Ranjan:3
```

```
5:suraksha 1
The students in iot:
Ranjan
suraksha
The students in aj:
Ananth
sumedh
The students in ads:
rajesh
The number of students are less in iot,
please choose other courses.
Ranjan:3
suraksha:2
The students in aj:
Ananth
sumedh
suraksha
The students in ads:
rajesh
Ranjan

[Process completed - press Enter]
```