

4) Write an interactive program (menu driven) in 'C' (using functions) to compute the area of a selected geometrical figure from a list of such figures (square, rectangle, and circle).

```

1 #include <stdio.h>
1 #include <stdlib.h>
2 #define pie 3.14f
3 int main (){
4     while(true){
5         printf("please select the figure by typing the number against it : \n");
6         printf("1.sqaure\n2.rectangle\n3.circle\n4.exit\n");
7         int n;
8         printf("now enter the number : ");
9         scanf("%d",&n);
10        if (n==1){
11            printf("you have selected a square now enter the length of side for it : ");
12            float s;
13            scanf("%f",&s);
14            printf("the area is %f \n",s*s);
15        }
16        else if (n==2){
17            printf("you have selected a rectangle now enter the dimensions\n");
18            printf("enter the length : ");
19            float l;
20            scanf("%f",&l);
21            float b;
22            printf("enter the breadth : ");
23            scanf("%f",&b);
24            printf("the area is %f\n",l*b);
25        }
26        else if (n==3){
27            printf("you have selected a circle now enter its radius : ");
28            float r;
29            scanf("%f",&r);
30            printf("the area is %f\n",pie*r*r);
31        }
32        else if (n==4){
33            printf("thanks for using the program\n");
34            break;
35        }
36        else {printf("invalid number \n");
37            break;}}
38 return 0;
39 }

```

please select the figure by typing the number against it :

- 1.sqaure
- 2.rectangle
- 3.circle
- 4.exit

now enter the number : 1

you have selected a square now enter the length of side for it : 22
the area is 484.000000

please select the figure by typing the number against it :

- 1.sqaure
- 2.rectangle
- 3.circle
- 4.exit

now enter the number : 2

you have selected a rectangle now enter the dimensions
enter the length : 1.5
enter the breadth : 2.3
the area is 3.450000

please select the figure by typing the number against it :

- 1.sqaure
- 2.rectangle
- 3.circle
- 4.exit

now enter the number : 3

you have selected a circle now enter its radius : 5.6
the area is 98.470398

please select the figure by typing the number against it :

- 1.sqaure
- 2.rectangle
- 3.circle
- 4.exit

now enter the number : 4

thanks for using the program