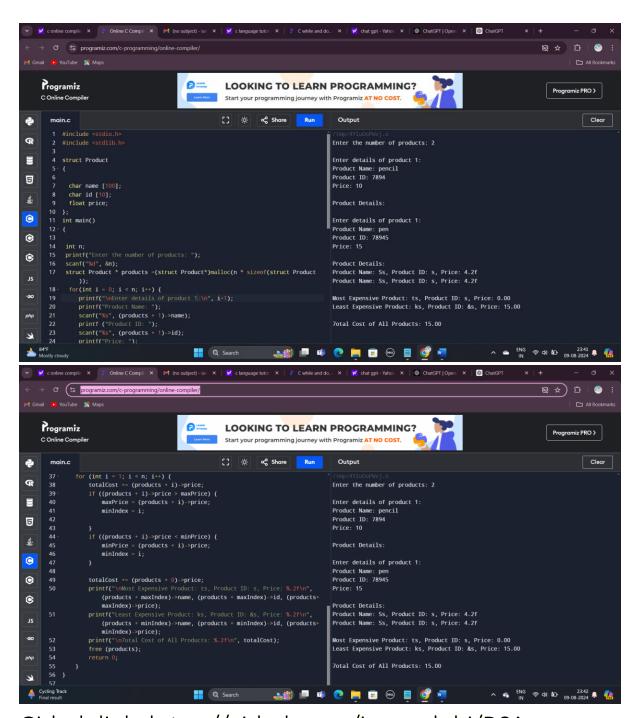
## DATA STRUCTURES AND ALGORITHMS ASSIGNMENT NO. 1

```
main.c
                                                          45
                                                              -<u>;</u>ó.-
                                                                      ∝ Share
                                                                                    Run
 1 #include <stdio.h>
 2 struct friends
4
        char name[20];
        char petname[20];
        long int phoneno;
 6
 7
          struct type //type of friends
 8
 9
           char typeoffriends[20];
10
           char commonfriendsname[50];
           int commonplacesvisitedtogether;
12
          }f1;
13 }f[3];
   int main()
15 - {
16
        int a;SS
        printf("enter the number of the friends:");
17
18
        scanf("%d",&a);
19
        for(int i=1;i<=3;i++)
20
21
            printf("name:");
22
            scanf("%s",&f[i].name);
            printf("petname:");
            scanf("%s",&f[i].petname);
24
25
            printf("phoneno:");
26
            scanf("%ld",&f[i].phoneno);
```

```
main.c
                                                          45
                                                                -<u>;</u>o;-
                                                                      ∝ Share
                                                                                    Run
27
            printf("type of friend:");
28
            scanf("%s",&f[i].f1.typeoffriends);
29
            printf("common friends name:");
            scanf("%s",&f[i].f1.commonfriendsname);
30
            printf("common places visited together:");
31
            scanf("%d",&f[i].f1.commonplacesvisitedtogether);
32
33
        printf("\nfriends list:\n");
34
        printf("s.no\t\tname\t\tpetname\t\tphone no.\t\ttype of friends\t\tcommon
            friends name\t\t commom places visited together\n");
36
        for(int b=1;b<=3;b++){
           printf("%d\t\t%s\t\t%s\t\t%s\t\t%s\t\t%s\t\t*\t*\t*\d\n",b+1,f[b].name,f[b]
                .petname,f[b].phoneno,f[b].f1.typeoffriends,f[b].f1
                .commonfriendsname,f[b].f1.commonplacesvisitedtogether);
38
39
40
    }
41
42
43
44
45
46
47
48
49
50
```



Github link: https://github.com/iamssakthi/DSA-ASSIGNMENT-1.git