```c
1   #include <stdio.h>
2   #include <stdlib.h>
3   #include<MyLibrary.h>
4   #define Highlighted 0X70
5   #define Normal 0X07
6   #define HOME 71
7   #define PAGE_UP 73
8   #define PAGE_DOWN 81
9   #define Up 72
10  #define DOWN 80
11  #define END 79
12  #define ESC 27
13  int main()
14  {                       ///LAB4
15  ///3)Highlight Menu: New Colored Menu"with Arrows"
16      int i, cur = 0, ExitFlag = 0;
17      char ch, menu[3][5] = {"New", "Save", "Exit"};
18  do
19  {
20      textattr(Normal);/// screen attribute function
21      clrscr();          /// clear screen function
22      for(i=0; i<3; i++)
23      {
24          if( i == cur )
25              textattr(Highlighted);
26          else
27              textattr(Normal);
28
29          gotoxy(10, 7+i*3);
30          _cprintf("%s", menu[i]);
31      }
32      ch = getche();
33      switch(ch)
34      {
35      case 0:
36      case -32:  ///case Extended key
37          ch = getche();///read 1 byte from buffer
38          switch(ch)
39          {
40          case Up:
41              cur--;
42              if(cur < 0)
43                  cur = 2;
44              break;
45          case DOWN:
46              cur++;
47              if(cur > 2)
48                  cur = 0;
49              break;
50          case HOME:
51          case PAGE_UP:
52                  cur =0;
53              break;
54          case END:
55          case PAGE_DOWN:
56              cur =2;
57              break;
58          }
59          break;    ///break of case extended key
60      case 13:   ///case Enter
61              if(cur == 0)
62              {
63                  clrscr();
64                  gotoxy(10, 7);
65                  printf("this is the new page ");
66                  getch();
```

```c
 67                    }
 68               else if(cur == 1)
 69               {
 70                    clrscr();
 71                    gotoxy(10, 7);
 72               printf("this is the save page ");
 73               getch();
 74               }
 75               else     ///Exit
 76               {
 77                    ExitFlag = 1;
 78               }
 79               break;
 80        case ESC:
 81               ExitFlag = 1;
 82               break;
 83        }
 84   }while(ExitFlag == 0);
 85   ///2)C Program to take char and displays if it is
 86   ///"Normal or Extended key"along with its Ascii value.
 87   char ch,ch2;
 88   do{
 89       printf("enter a character\n");
 90       ch = getche();
 91       if (ch == -32)
 92       {
 93           printf("its extended key ");
 94           ch2=getche();
 95           printf("the ascii value is %d",ch2);
 96       }
 97        else
 98       {
 99           printf("\nits normal key\n");
100           printf("the ascii value is %d\n",ch);
101       }
102   }while(ch!=27);
103   ///1)C Program to take firstName and lastName
104   /// from user, then displays fullName.
105     char fname[10],lname[10],fullname[20];
106     printf("enter the first name\n");
107     gets(fname);
108     printf("enter the last name\n");
109     gets(lname);
110     strcpy(fullname,fname);
111     strcat(fullname," ");
112     strcat(fullname,lname);
113     printf("\n hello %s \n",fullname);
114     return 0;
115
```