```
7 8 Q
                                                                                                                 Language C
                                              H Save
                     O Debug
                                                       {} Beautify
                               Stop Share
4
     main.c
       9 #include<stdio.h>
          #include<stdlib.h>
      11
          struct node *top=NULL;
      12
      13
          struct node
      14
      15 -
               int data;
      16
               struct node *next;
      18 };
      void stack();
void push(int);
int pop();
void display();
      24
          int main()
      26 - {
              stack();
      27
              return 1;
      28
      29 }
          void stack()
      31
      32 - {
              int choice=0,ele=0;
      33
      34
              do
      35 *
                  printf("\n Enter the choice:\n 1.Push.\n 2.Pop.\n 3.Display.\n 4.Exit\n Choice:");
      36
                      of("%d",&choice);
      37
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7 (B) (C)
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                                       H Save
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                         main.c
             princi ( \n encer the choice: \n i.Push.\n z.Pop.\n 3.Dispiay.\n 4.Exit\n choice: );
 30
             scanf("%d", &choice);
 37
             switch(choice)
 38
             case 1:
 40
                     printf("\n Enter the element to Push: ");
 41
                     scanf("%d",&ele);
                     push(ele);
 43
                     break;
             case 2:
 45
                     ele=pop();
printf("\n %d was deleted from Queue ",ele);
 47
                     break;
 48
             case 3:
                     display();
 50
                     break;
 51
 52
             case 4:
                     exit(0);
 53
             default:
 54
                     printf("\n Input Error Try Again! ");
 55
                     stack();
 56
 57
         }while(1);
 58
 59 }
 61 void push(int ele)
 62 - {
         struct node *newnode;
 63
         newnode =(struct node *) malloc (sizeof(struct node));
 64
         newnode->data=ele;
 65
```

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Language C
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4
    main.c
             newnode->data=ele;
                                             ( server ( server noue)/)
      65
             newnode->next=NULL;
      66
             if(top==NULL)
      67
      68 -
                 top=newnode;
      69
      70
             else
      71
     72 -
                 newnode->next=top;
      73
                 top=newnode;
      74
      75
     76
             printf("\n Element %d was inserted!\n ",ele);
     77
     78
     79 }
80 int pop()
     81 - {
              int ele;
     82
              struct node *temp;
     83
              if(top==NULL)
     84
     85 -
                 printf("\n Stack UnderFlow, The Stack is empty! \n");
     86
     87
                 stack();
     88
     89
              ele=top->data;
     90
     91
              temp=top;
     92
              if(top->next==NULL)
     93
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Language C
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4
    main.c
       88
       89
                ele=top->data;
       90
                temp=top;
       91
       92
                if(top->next==NULL)
       93
       94 -
                    top=NULL;
       95
                }
else
       96
       97
       98 -
       99
                   top=top->next;
      100
                    (temp);
      101
                return ele;
      102
      103 }
      104
      105 void display()
      106 - {
               struct node *i;
      107
               if(top==NULL)
      108
      109 -
                    printf("\n Stack is empty!\n ");
      110
                    stack();
      111
      112
               printf("\n The Stack Contains:\n TOP->");
for(i=top;i!=NULL;i=i->next)
      113
      114
                  printf("\t%d ",i->data);
      115
      116
      117
                                                                                                                                      23:12
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```









