```
main.c
    1 #include<stdio.h>
   #include(stdlib.h)
#include(stdlib.h)
#include(conio.h)
#define stack_size 5
int top=-1;
int s[10];
       int item;
    8 void push()
    9 - {
               if(top == stack_size - 1)
                     printf("Stack Overflow \n");
                     return;
               top = top +1;
s[top] = item;
        }
int pop()
              if(top == - 1)
    return - 1;
return s[top--];
        void display()
               int i;
   27
28
               if(top == - 1)
```

```
► Run O Debug Stop C Share H Save {} Beautify ±
                                                                                                                            ~ 8 0
                                                                                                        Language C
main.c
           if(top == - 1)
                printf("Stack is empty \n");
return;
                 tf("Contents of the stack are: \n");
            for(i=top;i>=0;i--)
                printf("%d \n", s[i]);
       }
      void main()
       {
            int item_deleted, choice;
            for(;;)
                 printf("\n1:Push \n2:Pop \n3:Display \n4:Exit \n");
printf("Enter the choice : \n");
scanf("%d", &choice);
switch(choice)
                 {
                      case 1: printf("Enter the item to be inserted \n");
                                            mf("%d", &item);
                                        push();
                                        break;
                      case 2: item_deleted = pop();
    if(item_deleted == - 1)
```

```
lii
         ▶ Run O Debug Stop C Share
                                           H Save
                                                                                                           ~ 6 ¢
                                                                                          Language C
main.c
  37
      void main()
          int item_deleted, choice;
           for(;;)
               printf("\n1:Push \n2:Pop \n3:Display \n4:Exit \n");
printf("Enter the choice : \n");
scanf("%d", &choice);
switch(choice)
               {
                   case 1: printf("Enter the item to be inserted \n");
                   mf("%d", &item);
                                            f("Item deleted is %d \n", item_deleted);
                                  break;
                   case 3: display();
                   default:exit(0);
               }
          getch();
```

```
input
1:Push
2:Pop
3:Display
4:Exit
Enter the choice :
Enter the item to be inserted
10
1:Push
2:Pop
3:Display
4:Exit
Enter the choice :
Enter the item to be inserted
20
1:Push
2:Pop
3:Display
4:Exit
Enter the choice :
Enter the item to be inserted
30
```

1:Push 2:Pop 3:Display 4:Exit Enter the choice : Enter the item to be inserted 40 1:Push 2:Pop 3:Display 1:Exit Enter the choice : Enter the item to be inserted 50 1:Push 2:Pop 3:Display 4:Exit Enter the choice : Enter the item to be inserted 60

input

```
v / 9
3:Display
4:Exit
                                                                      input
Enter the choice :
Enter the item to be inserted
60
Stack Overflow
1:Push
2:Pop
3:Display
4:Exit
Enter the choice :
3
Contents of the stack are:
50
40
30
20
10
1:Push
2:Pop
3:Display
4:Exit
Enter the choice :
```