```
Lab Briggeam - 1
of stack using sta away with over pop and of stack using sta away with over pop and of print appropriate print appropriate overflow and overflow. Conditions.
  ##include < stdio h>
  #include <
 # define STACK_SIZE 5
 int top= -1 ;
  int s[10];
  int item:
  void puch ()
  if (top == STACK_SIZE-1)
       pounts (" Stack oneoflow \n");
         return,
top=top+1;
3[top]=item;
int pop ()
 if (top == -1)
```

```
return s[top--];
   void display ()

int ?:

if (top==-1)
        pulnef ("Stack is empty");
    fou(1=0: 9 <= top: 1++)
       Perint[1"% od m", S[?]).
  void main ()
 int Elem_deleted;
5 for ( ; . )
   peunt (" In 1. Rush me. Pop m 3. Display
perint[" In Enter your choice")?
  scanfl" ol. d In", & choice)
switch (choice)
 case 1: perintf ("Enter the item to be inserted in ");
scarf (" 1.d", & item);
```

bouck; case 2 : persoff êtem_deleted = pop(); êf (Etem_deleted = = -1) perint ("Stack is empty"); else printf!" Etem deleted is % d In", Item - deleted); case 3: display(); bereak; default: exet (0);

```
1.Push
2.Pop
3.Display
4.Exit
Enter the choice:
2
Stack underflow!
1. Push
2.Pop
Display
4.Exit
Enter the choice:
Enter the item to be inserted:
П
1. Push
2.Pop
Display
4.Exit
Enter the choice:
Enter the item to be inserted:
2
```

1. Push

2.Pop

```
3.Display
4.Exit
Enter the choice:
П
Enter the item to be inserted:
2
1. Push
2.Pop
3.Display
4.Exit
Enter the choice:
Enter the item to be inserted:
3
1. Push
2.Pop
3.Display
4.Exit
Enter the choice:
Enter the item to be inserted:
1. Push
2.Pop
Display
4.Exit
```

```
Enter the choice:
Enter the item to be inserted:
5
Stack overflow!
1. Push
2.Pop
3.Display
4.Exit
Enter the choice:
2
Item deleted is 4
1. Push
2.Pop
3.Display
4.Exit
Enter the choice:
Contents of the stack:
3
2
```