

Date \_\_\_\_\_

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>
#define Stacksize 3
int top = -1;
int s[Stacksize];
int item;
```

```
void push() {
    if (top == Stacksize - 1) {
        printf("Stack overflow .... item to
                be inserted .... \n");
    }
    else {
        top++;
        s[top] = item;
        printf("element is inserted .... \n");
    }
    printf("\n");
}
```

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```
int pop() {  
    if (top == -1) {  
        return 0; }  
    else {  
        top--;  
        return s[top];  
    }  
    printf("\n");  
}
```

```
void  
void display() {  
    int i;  
    if (top == -1) {  
        printf("Stack underflow.. no element  
               are present \n");  
    }  
    else {
```

```
        printf("The elements in the stack are:\n")  
        for (i = top; i >= 0; i--) {  
            printf("%d \n", s[i]);  
        }  
    }
```

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} printf("\n");

int main () {

int ch;

int item-delete;

while (1) {

printf("STACK operations : \n");

printf("Pls enter your choice : \n");

printf("1. Push \n 2. Pop \n 3. Display \n 4. Exit\n");

scanf("%d", &ch);

switch (ch) {

case 1: printf("enter the item u want  
to push / insert : \n");

scanf("%d", &item);

push();

break;

case 2: item-delete = pop();

if (item-delete == 0) {

printf("Stack underflow");  
}

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```
else {
```

```
    printf("Item Deleted is : %d\n",  
           item - deleted);
```

```
}
```

```
    break;
```

```
case 3: display();
```

```
    break;
```

```
default: exit(0);  
}
```

```
}
```

```
}
```



```
STACK operations :  
Pls enter your choice:  
1.Push  
2.Pop  
3. Display  
4. Exit  
1  
enter the item u want to push/ insert :  
23  
element is inserted ....  
  
STACK operations :  
Pls enter your choice:  
1.Push  
2.Pop  
3. Display  
4. Exit  
1  
enter the item u want to push/ insert :  
45  
element is inserted ....  
  
STACK operations :  
Pls enter your choice:  
1.Push  
2.Pop  
3. Display  
4. Exit  
1  
enter the item u want to push/ insert :  
67  
element is inserted ....  
  
STACK operations :  
Pls enter your choice:  
1.Push  
2.Pop  
3. Display  
4. Exit  
1  
enter the item u want to push/ insert :  
76  
stackoverflow.... item cannot be inserted...  
  
STACK operations :  
Pls enter your choice:  
1.Push  
2.Pop  
3. Display  
4. Exit  
3  
the elements in the stack are:  
67  
45  
23
```

```
STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
2
item Deleted is : 67
STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
2
item Deleted is : 45
STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
2
item Deleted is : 23
STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
2
Stack underflow
STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
3
stack underflow ...no elements are present

STACK operations :
Pls enter your choice:
1.Push
2.Pop
3. Display
4. Exit
4

-----
(program exited with code: 0)

Press any key to continue . . .
```