

Program to Show the Concept of "PUSH"
or "POP" operation.

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
int stack [5], top = -1;
```

```
void push();
```

```
void pop();
```

```
void show();
```

```
void main()
```

```
{
```

```
    int ch;
```

```
    clrscr();
```

```
    printf (" 1  PUSH\n");
```

```
    printf (" 2  POP  \n");
```

```
    printf (" 3  Show \n");
```

```
    printf (" 4  Exit");
```

```
    while (1)
```

```
    {
```

```
        printf ("\n Enter choice");
```

```
        scanf ("%d", &ch);
```

```
        switch (ch)
```

```
        {
```

```
            case 1: push();
```

```
                break;
```

```
if (top == -1)
```

```
{
```

```
    printf("Stack is empty");
```

```
}
```

```
else
```

```
{
```

```
    printf("POPPED %d", stack[top]);
```

```
    top = top - 1;
```

```
}
```

```
}
```

```
void show()
```

```
{
```

```
    int i;
```

```
    if (top >= 0)
```

```
    {
```

```
        printf("Stack elements \n");
```

```
        for (i = top; i >= 0; i--)
```

```
        {
```

```
            printf("%d", stack[i]);
```

```
        }
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("Stack is Empty");
```

```
    }
```

```
}
```