



**INDIAN SCHOOL MUSCAT**  
**SENIOR SECTION**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**CLASS XII**

**TOPIC: IMPLEMENTATION OF STACK**  
**LAB WORKSHEET - 8**

1. Considering the following code is given in the program write a menu driven program to do the following menu operations for a stack as an array.

```
class STACK
{ double VAL[8] ;
  int top ;
  public:
  STACK()
  { top = -1;}
  ~STACK()
  { cout<< "\nDestroying Stack"; }
  void push() ;
  void pop();
  void lsempy();
  void lsfull();
  void Count();
  void Display();
};
```

**MENU**

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1. Push an element to a stack.
2. Pop an element from a stack.
3. Check whether the stack is empty.
4. Check whether the stack is full.
5. Count the number of elements in the stack.
6. Display the elements in the stack.
7. Exit.

Enter your choice(1 to 7):

2. Considering the following code is given in the program write a menu driven program to do the following menu operations for a stack as a linked list (dynamic stack).

```
struct NODE
{int empcode;
 char name[25] ;
 float salary ;
  NODE *next ;
};
class Stack
{ NODE *Top;

  public:
  Stack()
  { Top = NULL;}
```

```
~Stack()
{ cout<< "\nDestroying Stack"; }

void push() ;
void pop();
void Iempty();
void Count();
void Display();
};
```

#### MENU

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1. Push an element to a stack.
2. Pop an element from a stack.
3. Check whether the stack is empty.
4. Count the number of elements in the stack.
5. Display the elements in the stack.
6. Exit.

Enter your choice(1 to 6 ):