

Q) Write a program to simulate working of stack using array with the following:-

a) Push

b) Pop

c) Display

Program should print appropriate messages for stack overflow & stack underflow.

```
int p[10];
```

```
top = -1;
```

```
push(x)
```

```
{ top = top + 1;
```

```
  p[top] = x;
```

```
}
```

```
pop()
```

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

```
}
```

```
display()
```

```
{
```

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

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

```
  else
```

```
  { int i;
```

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

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

```
  }
```