

24-10-20

IMPLEMENTATION OF STACK USING ARRAY

Aim :: Write a Program to implement
Stack using arrays.

Data Structure used ::

- array
 - integer
 - char
- } Primitive

Stack

Operations Performed on Stack:

- Pushing
- Popping
- Peek
- Display
- Is empty

ALGORITHMS

1) Pushing:

top = -1 // Initializing

1. Read items

2. If top == N-1
Print ("overflow") ;
exit

else:
top = top + 1
stack[top] = items

3. exit

2. Popping

```
if top == -1:  
    print("stack empty")  
    exit()  
else  
    print(stack[top]);  
    top = top - 1  
end;
```

3. Peek

```
if top == -1  
    print("stack empty")  
    exit()  
else  
    return stack[top]
```

4. Is empty

```
return stack top == -1;
```