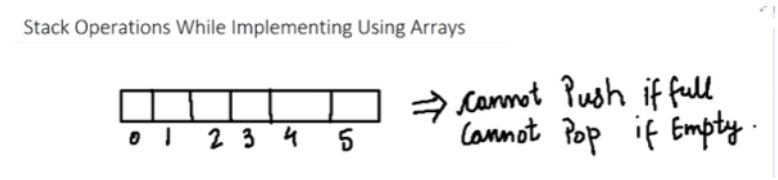
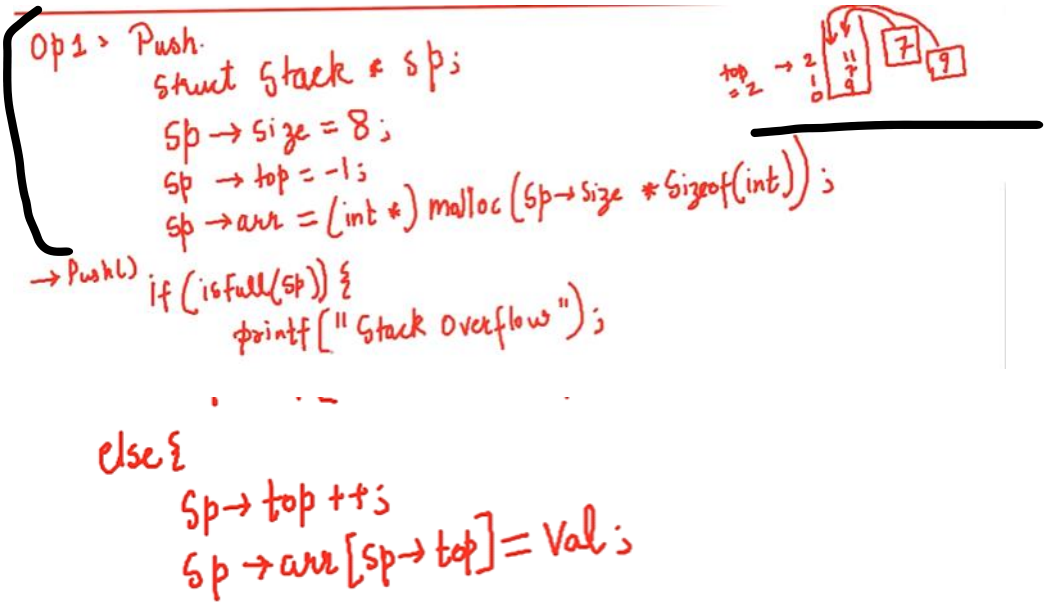
04 October 2023 15:48

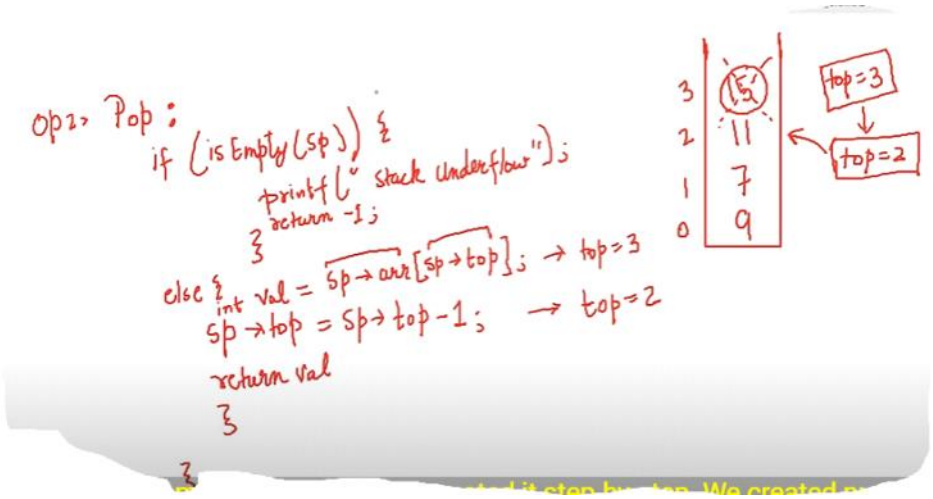




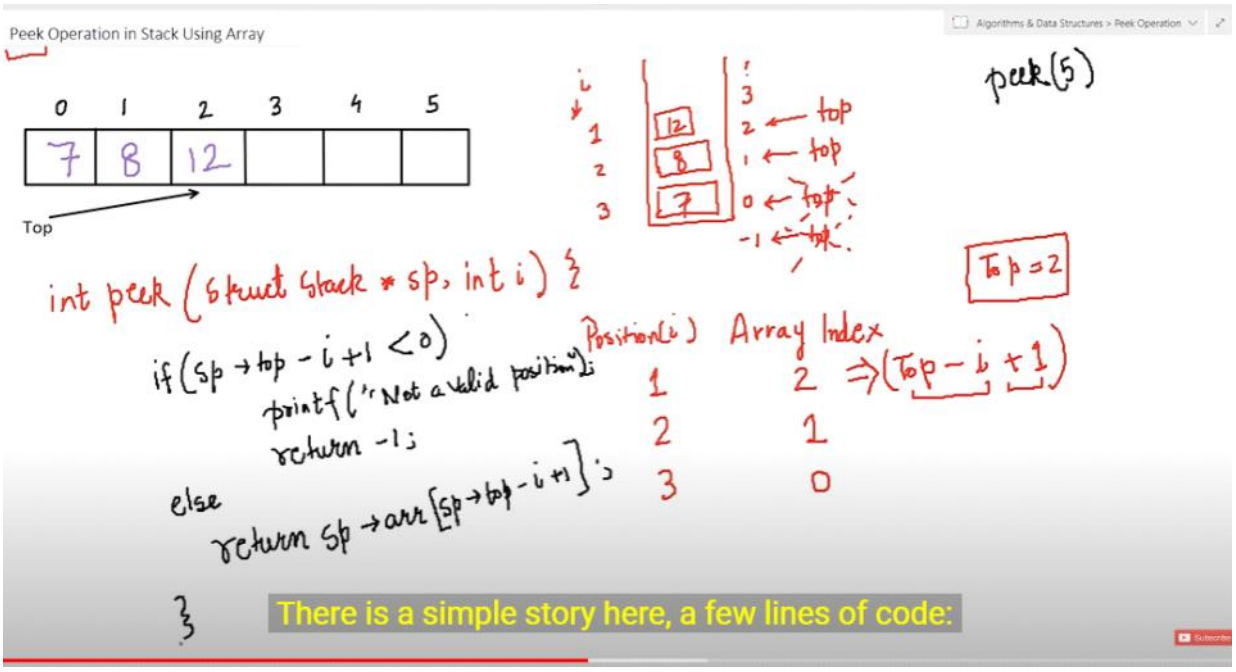
Creating stack

```
else{
    sp→ top ++;
    sp → arr [sp→ top] = val;
```

POP Operation



PEEK Operation



StackTop naam ka function which return the TOPMOST value of the stack

```
return sp→arr[sp→top];
```

StackBottom returns the LOWERMOST value of the stack

```
stackBottom → sp→arr[0];
```

Time complexity for both Constant O(1)

① isEmpty → O(1)
② isFull → O(1)
③ Push → O(1)
④ Pop → O(1)
⑤ Peek → O(1)

```c
int main(){
    // struct stack s;
    // s.size = 80;
    // s.top = -1;
    // s.arr = (int *) malloc(s.size * sizeof(int));
    struct stack *s;
    s->size = 80;
    s->top = -1;
    s->arr = (int *) malloc(s->size * sizeof(int));
    return 0;
```

Agr object bna rahe to . lagega

Agr pointer bna rahe to -> lagega