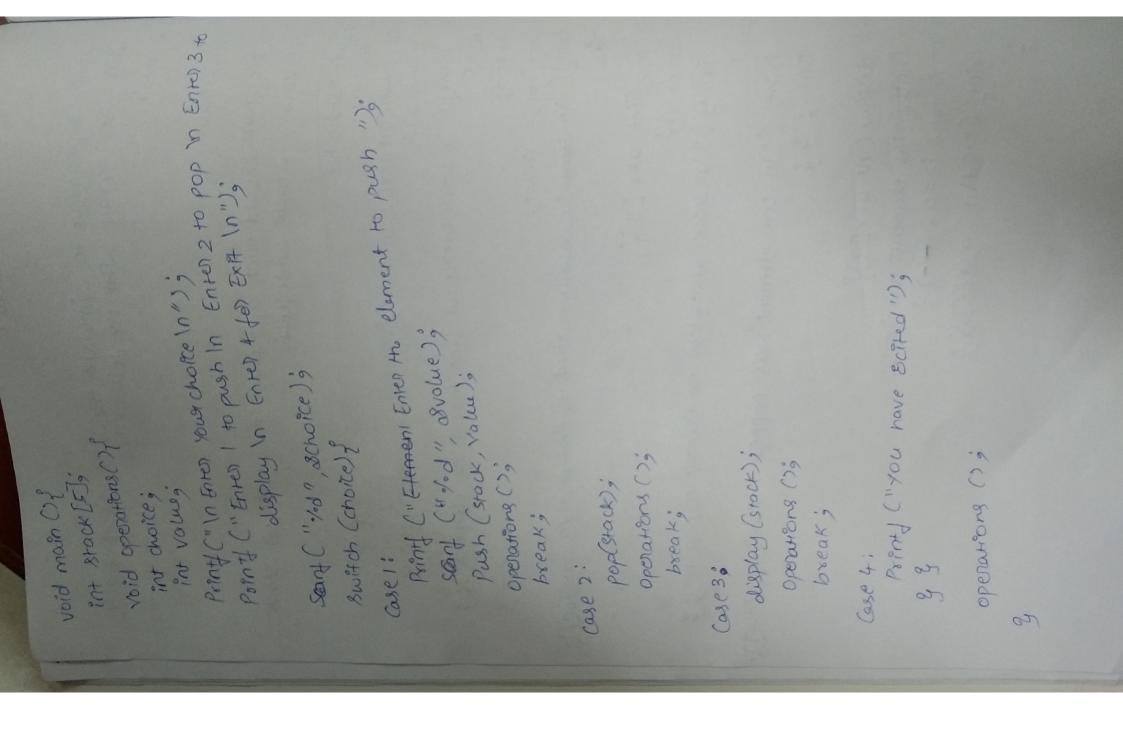
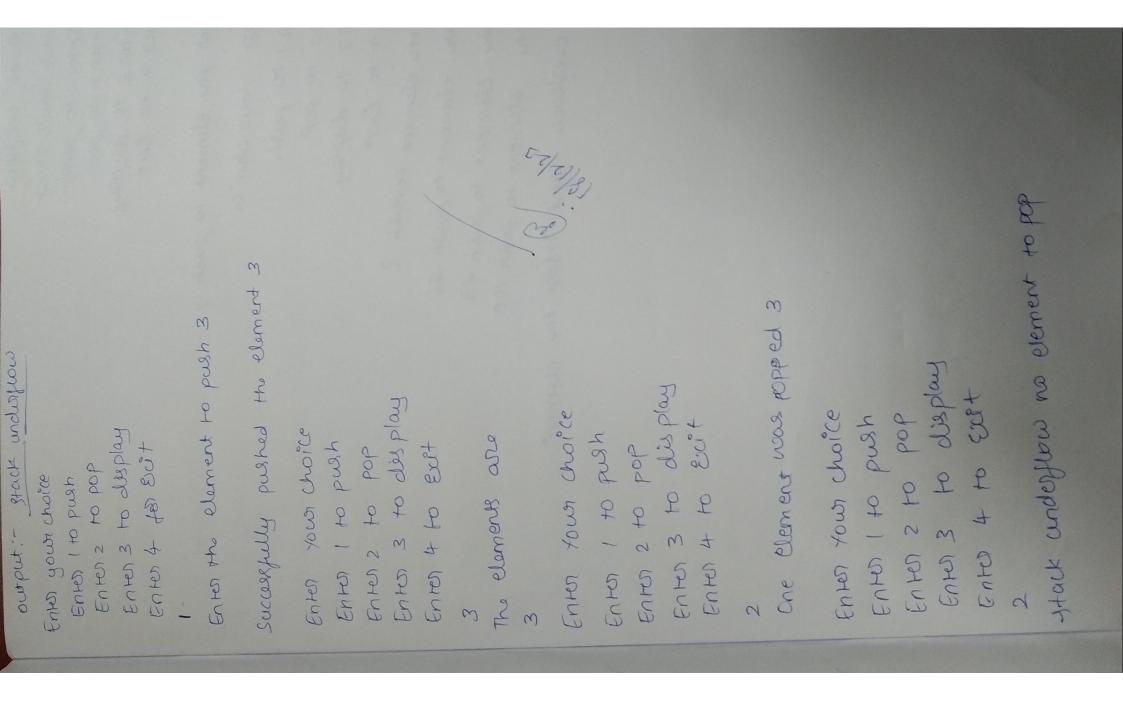
```
18 12/23
                        Program 1
D. Write a program to simulate the working of stack
   using an array with the tollowing:
  a) push
   b) pop
   d> pisplay
  The program should print appropriate messages for stack
   overflow, stack underflow
*include < Stolio. h >
int top=-19
 void push CintagrEJ, int valuel
 int of (40p>4) of
      Point ("In Stack overflow Cant insent the element"); ?
   elses
   ++ + 0 p ;
   ass[top] = Value;
   Print ["In Stack Successfully pushed the element red", axx[top]);
void pop (int axx []) {
 if (top == -1) {

Print (" \n stack underflow no element to pop \n"); }
      Printf ("In one element was popped "od\n", arrottop]
 else of
      top -- ; 3 4
void display (int arr[]){
      Printy ("The elements are \n");
tæ(int i= top; i>=0; i+-)?
     Printf ("%d\n", a 68 [i]) ; $
```





Stacke overflow Enter your choice Enter 1 to push Enter 2 to pop Enters to display Enter 4 to Exit states the element to push 3 Entor your choice Enter 1 to push Enter 2 to pop Enters to display Enter 4 to Escit First the element topush 8 Enter the element to push 56 Enter to element to push 83 Enter the element to push 100 Stack overflow can't insert the element