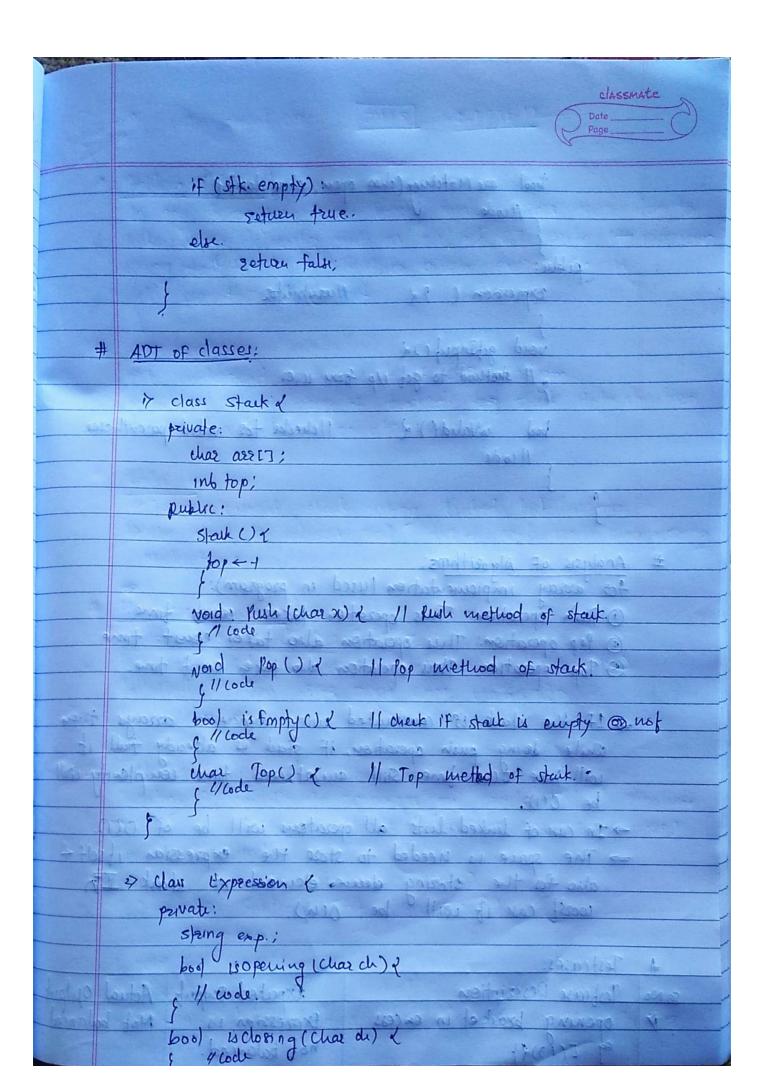
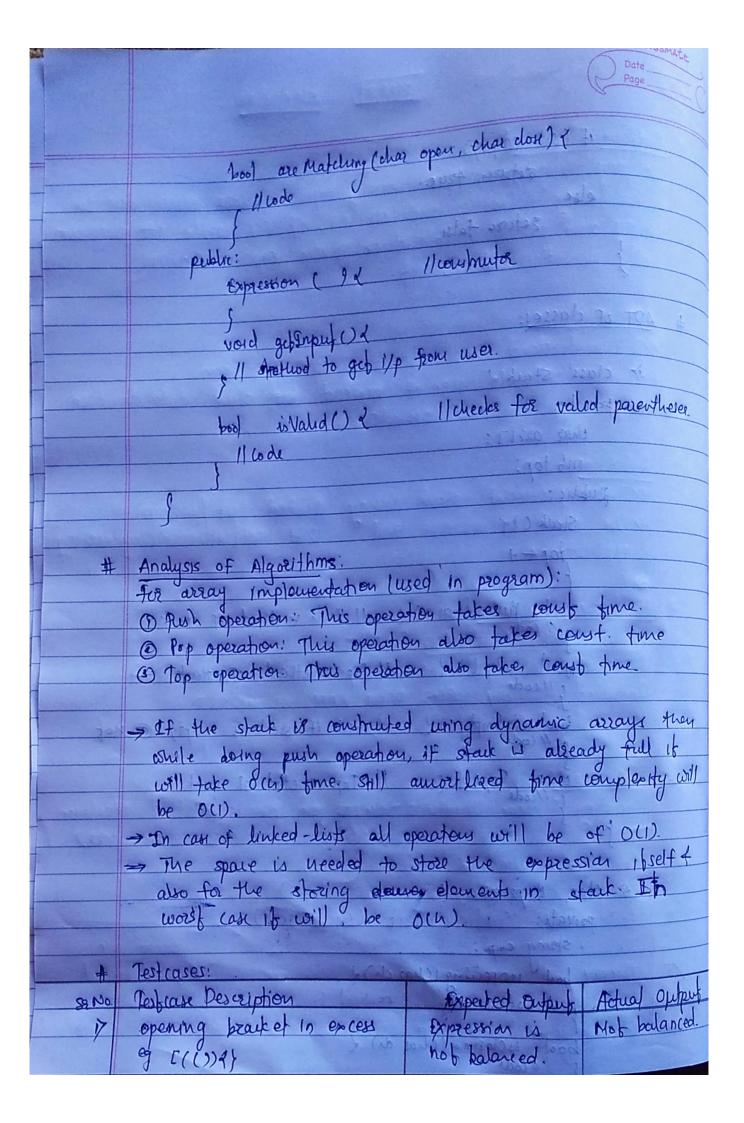
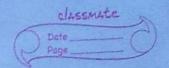
order in which the operations are performed, ? The ada is LIFO Clash in first out) @ FIFO (first m ifish out) 3) The stack can be implemented using array @ linked 9) There are many real world applications of stack. te ex. balanced parantheses, neb pages susting. Balanced Parontheser Expression: It we consider a expression containing broukers, it is said to be balanced 7 16 contains no unnatched brackets. 2) The subset of bracket anclosed within the confines of matched gato of brackets is also a matched part of brackets. The standard of the same to the trunt Algorithm check Balonced Parenthes (string exp) of Stack stk for if o to no if (expri) is opening) {

stk. push (expri) else if (expri) is closing) ? return talse 14 (St.k. top) oppi) } are not matching)
return false f stk. popu







9	dosing brouters are in excess.	Expression is not	Not balanced
13	4 ()]	balanced.	The second
\$	Balanced expression.	Expression iss	Balanced.
-	eg [] (U) [['\]	balanced.	
4>	All pair are present but	Expression is not	Not balonced.
1	expression is not balanced.	balonced.	
	eg [1]}		

Applications

The real world applications of stacks are as follows:

- & expression evaluation (infix, postfix, prefx)
- e> To check matching parantheres in toof editors.

- 4) Memory monagement.

 5) Recussive programs un intenit stack in conquete memory while calling the function again & again.

Condusion:

Start is a very useful data structure is can of real world stack due to Auch one can know the details of data spuchere in much more depth.