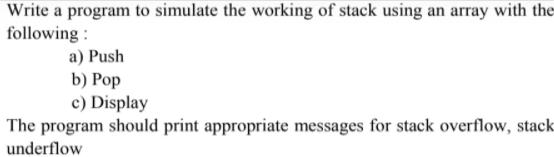
**DATA STRUCTURES LAB RECORD**

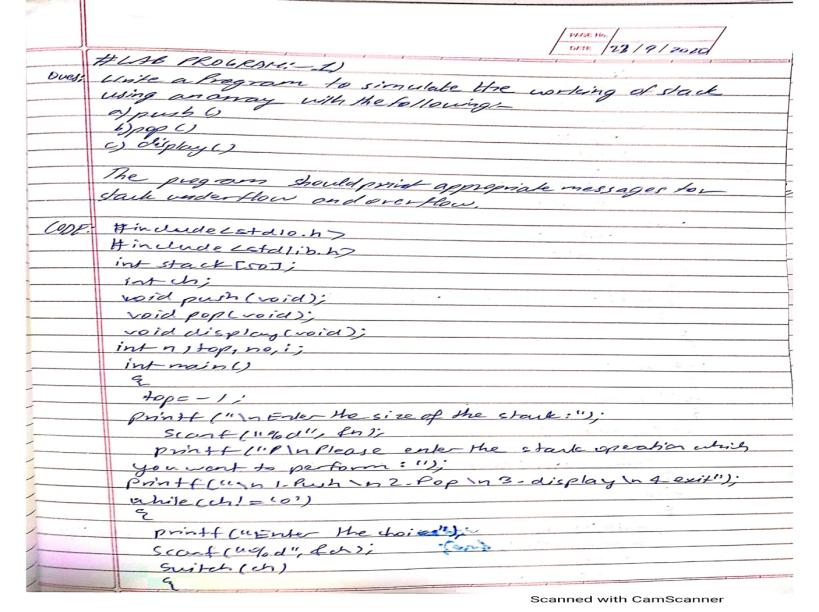
**USN: 1BM19CS074**

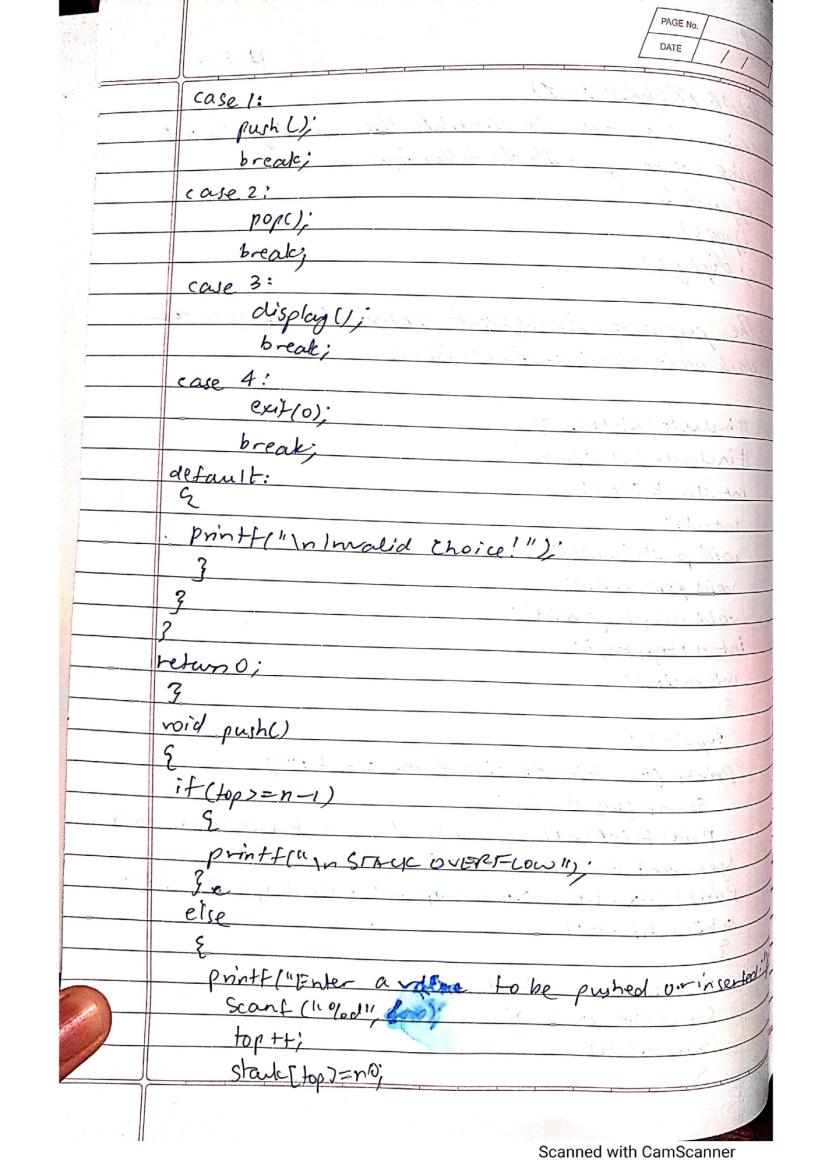
**NAME: Kizhakel Sharat Prasad**

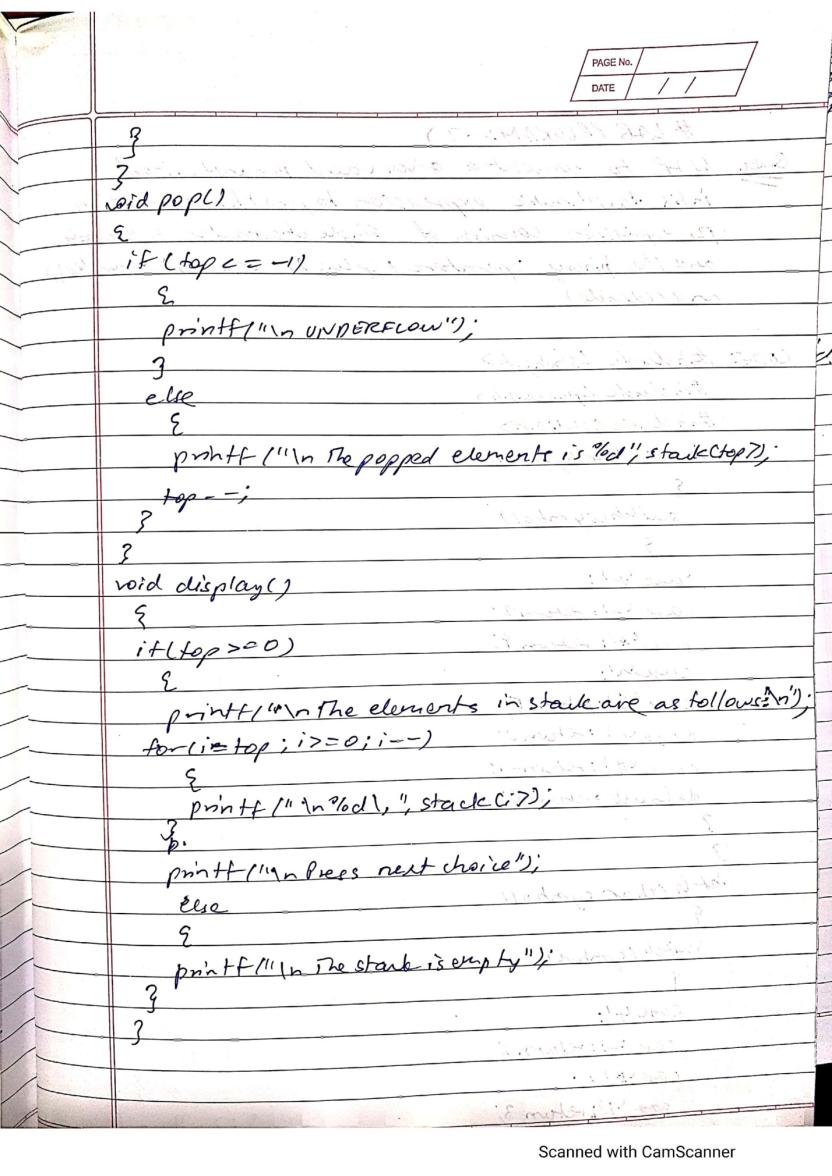
**LAB PROGRAMS 1-10:**

**1.**

****

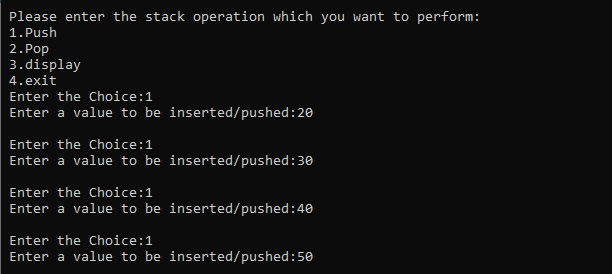






**OUTPUT:**

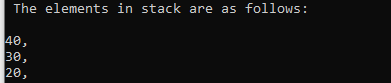
1. PUSH



1. **POP**

C:\Users\admin\Documents\ds_lab1_ss2.PNG

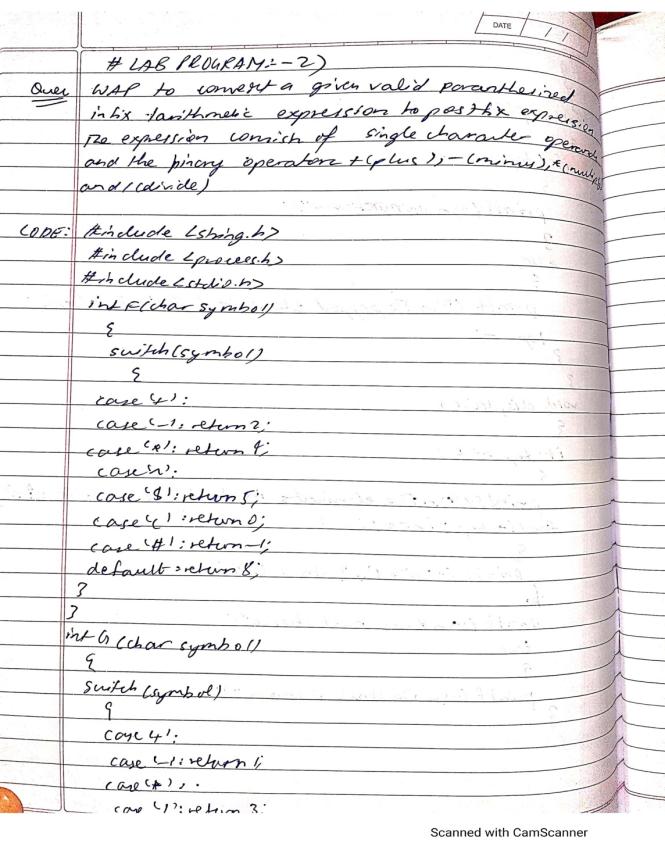
1. **DISPLAY**

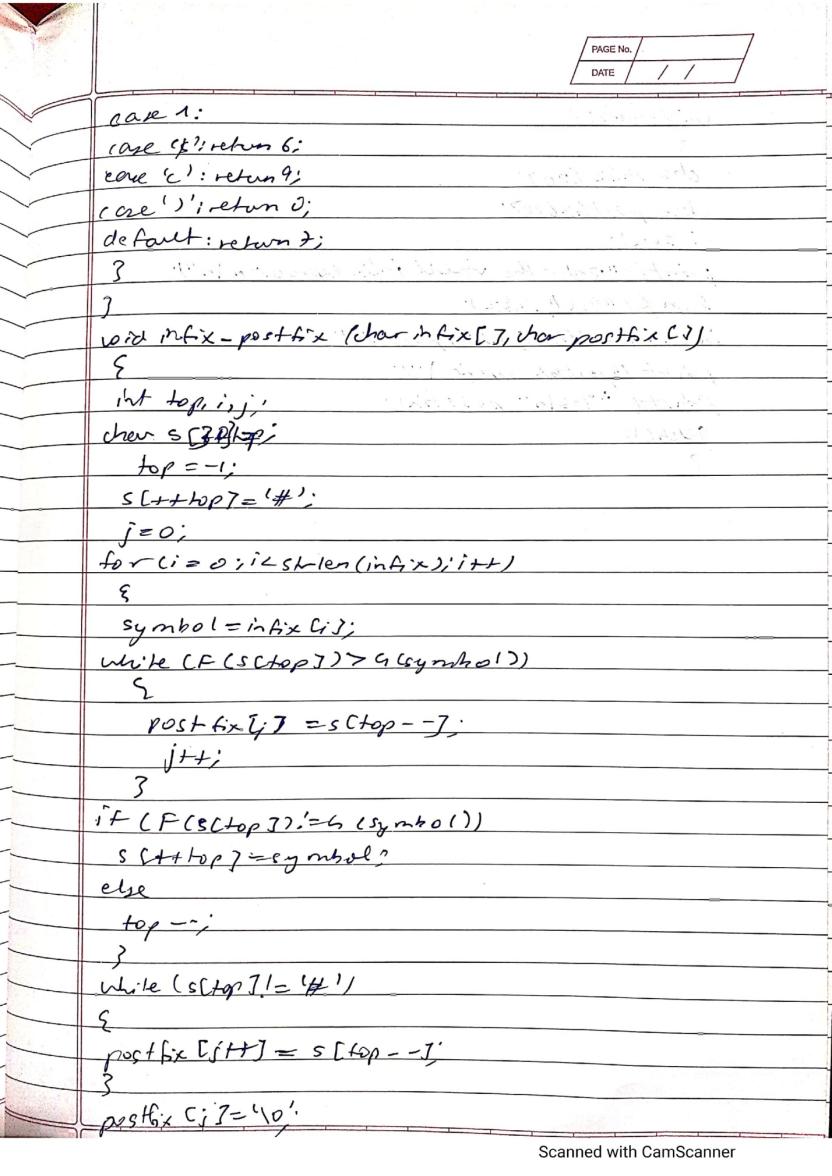


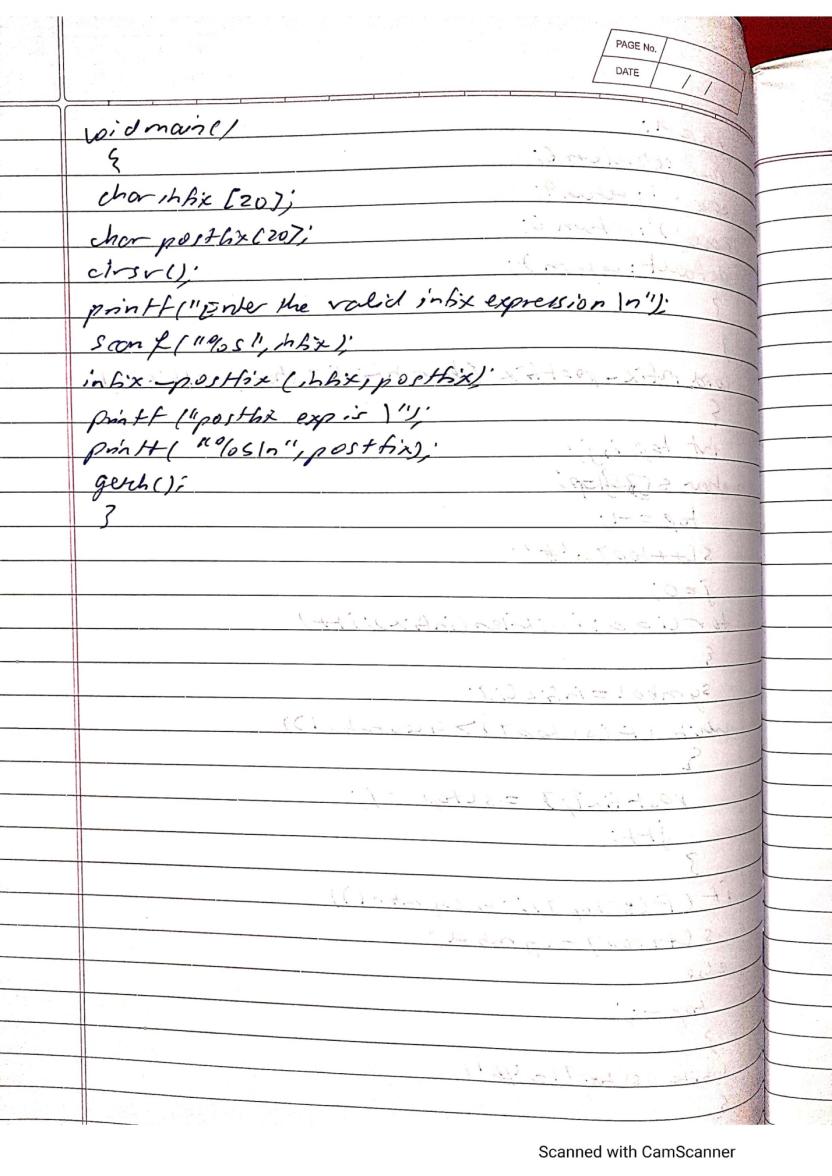
**2.**

**C:\Users\admin\Documents\ds_q2_ss1.PNG**

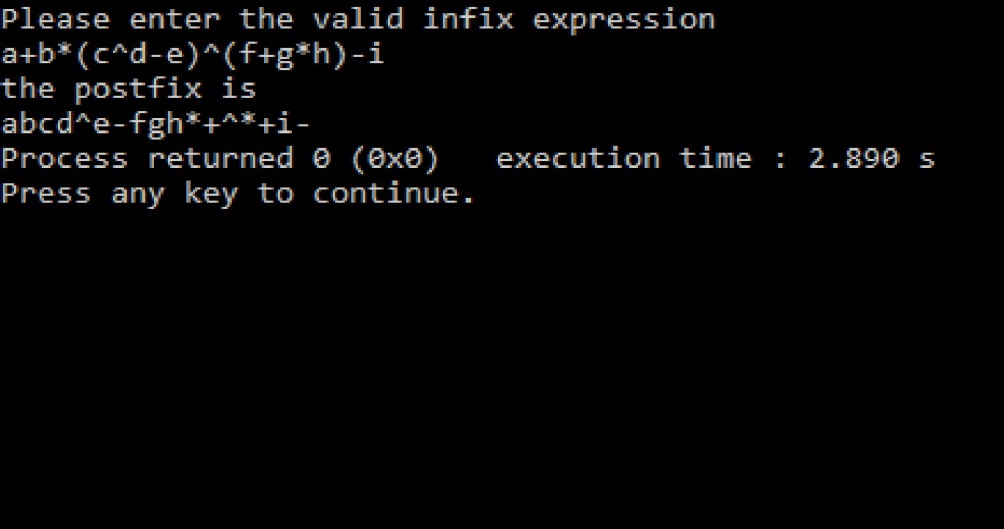
**C:\Users\admin\Documents\ds_q2_ss2.PNG**

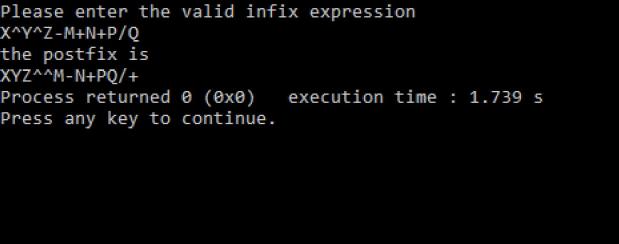




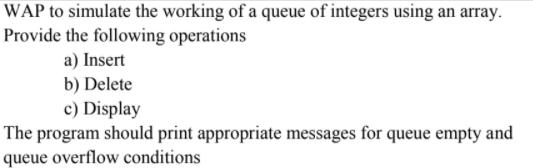


**OUTPUT:**

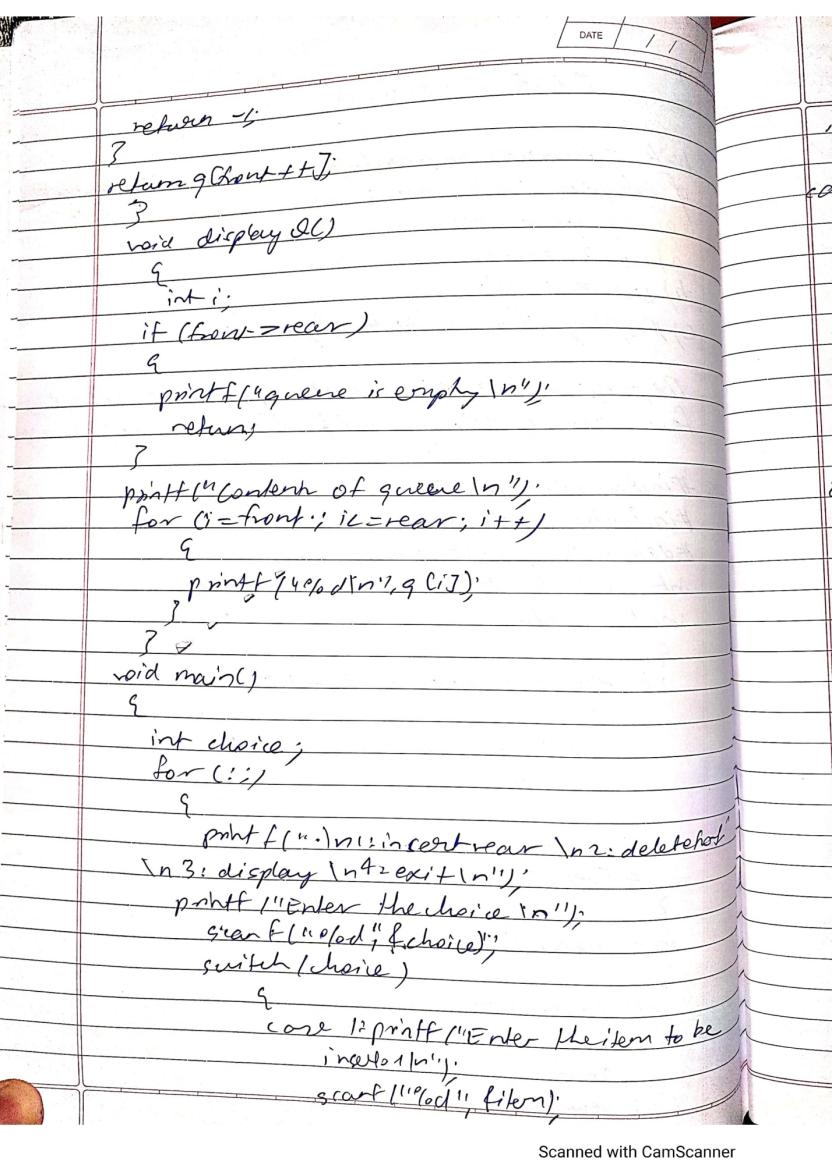


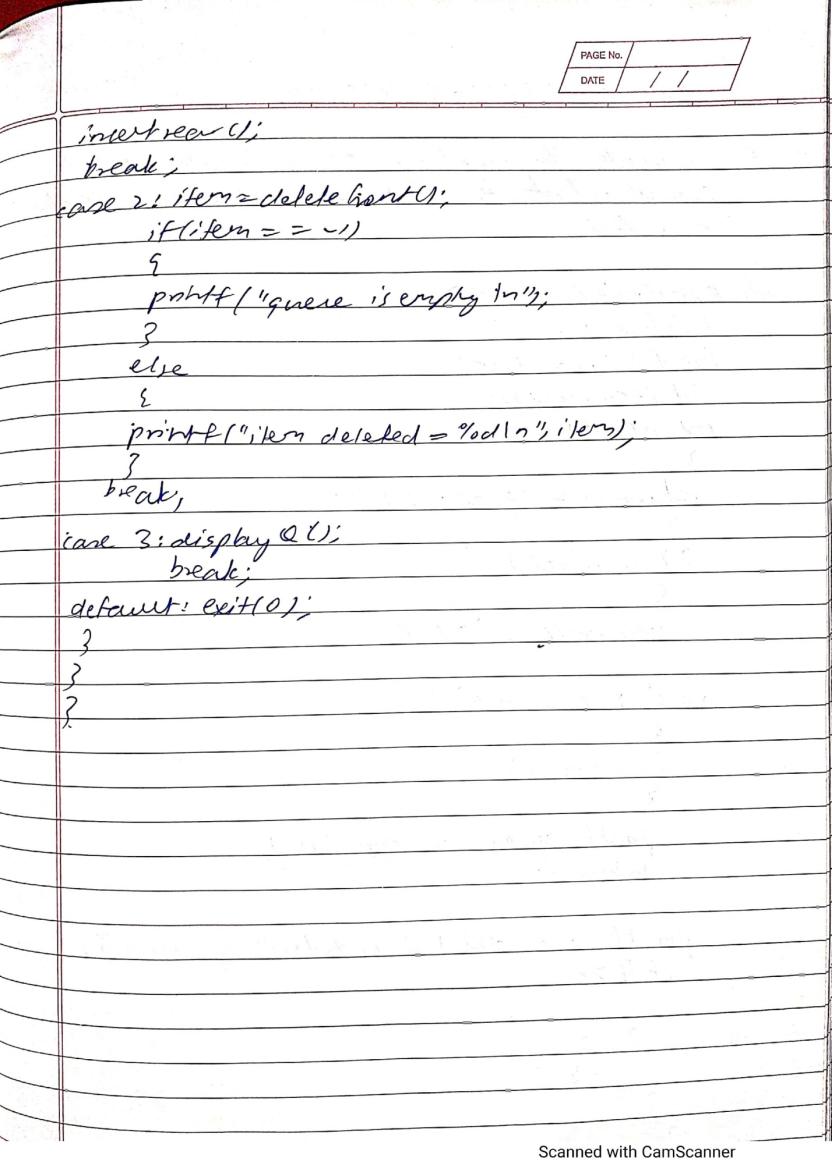


**3.**

****

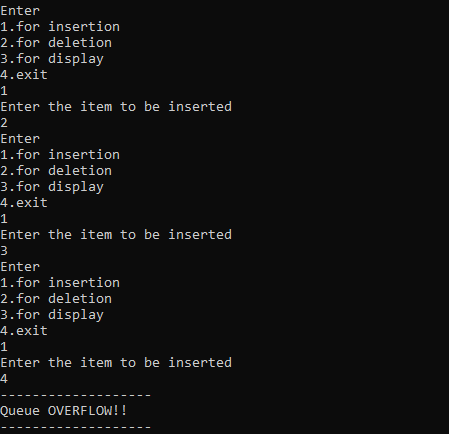




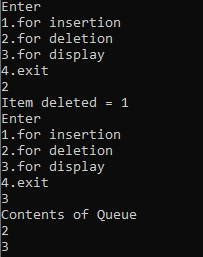


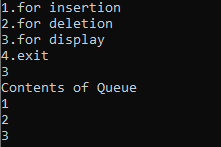
**OUTPUT:**

**1. INSERTION**

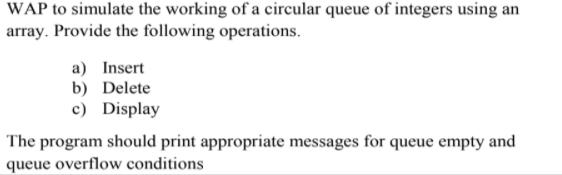


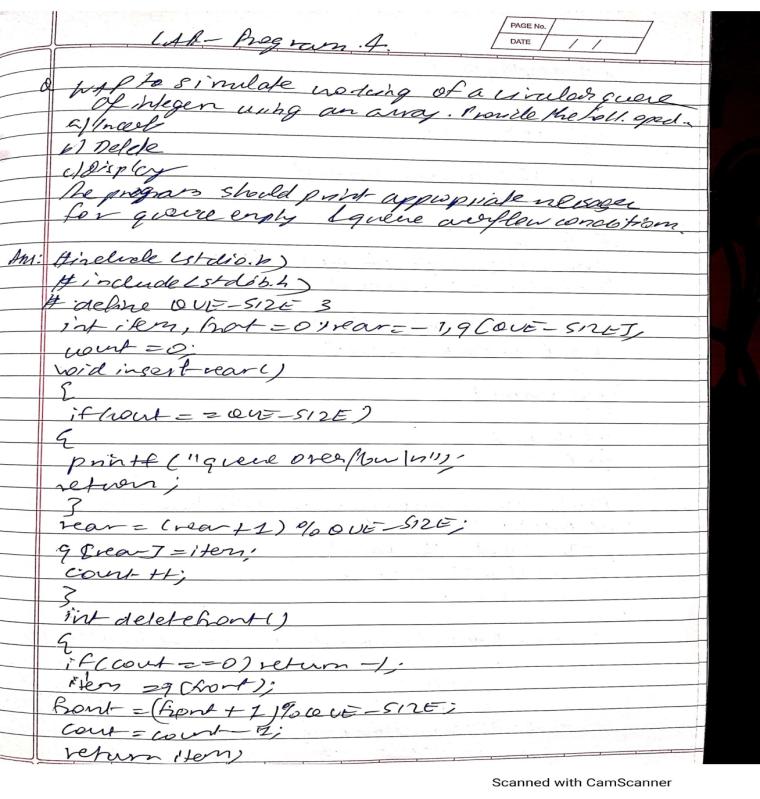
**2. DELETION**

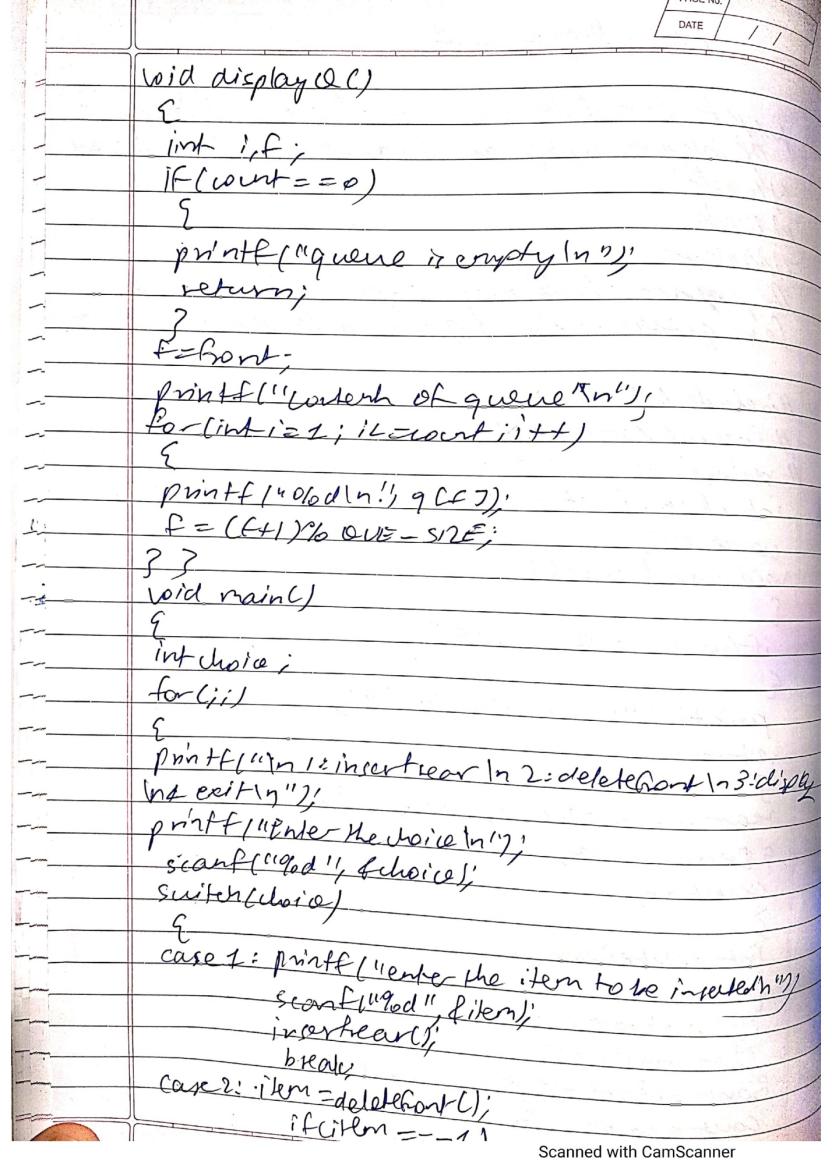
**3. DISPLAY** 3.3.33 bjh

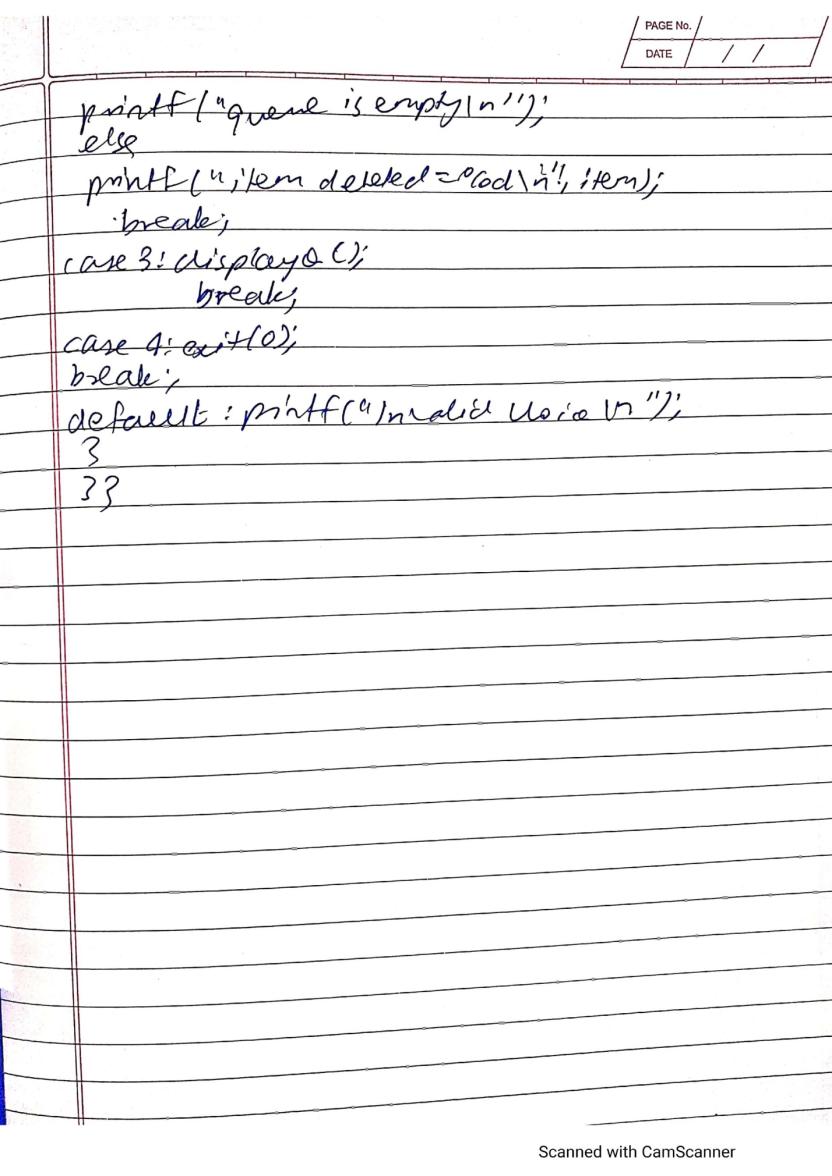


**4.**

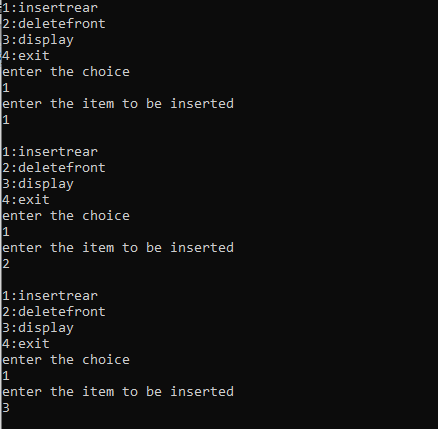
****



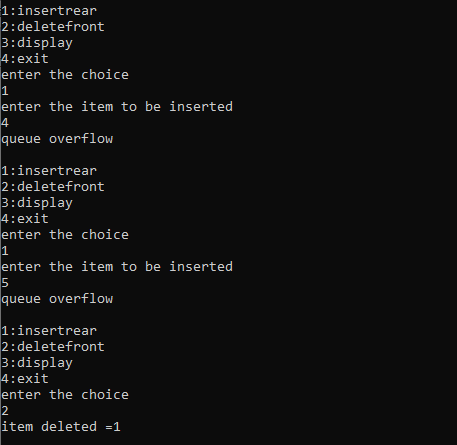




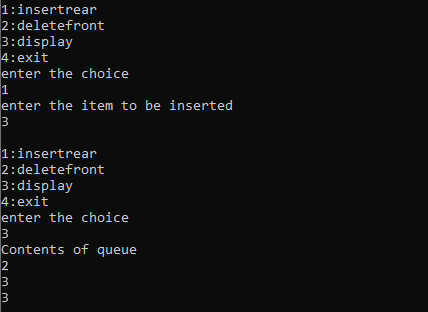
**1.INSERT REAR**



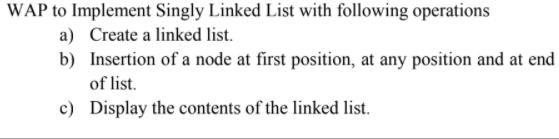
**2.DELETE FRONT**

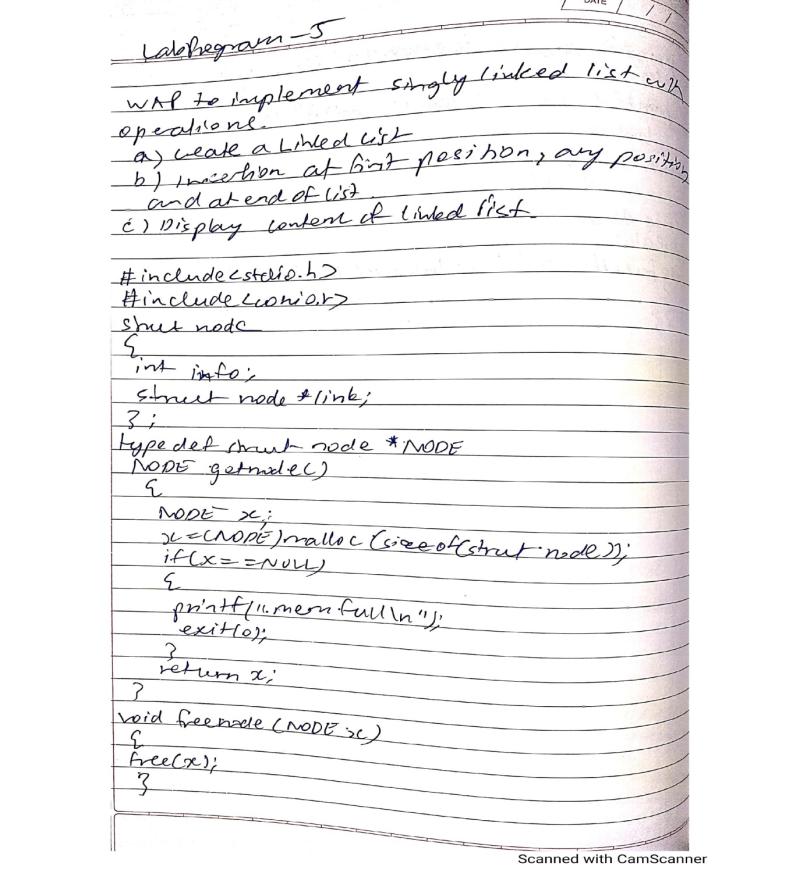


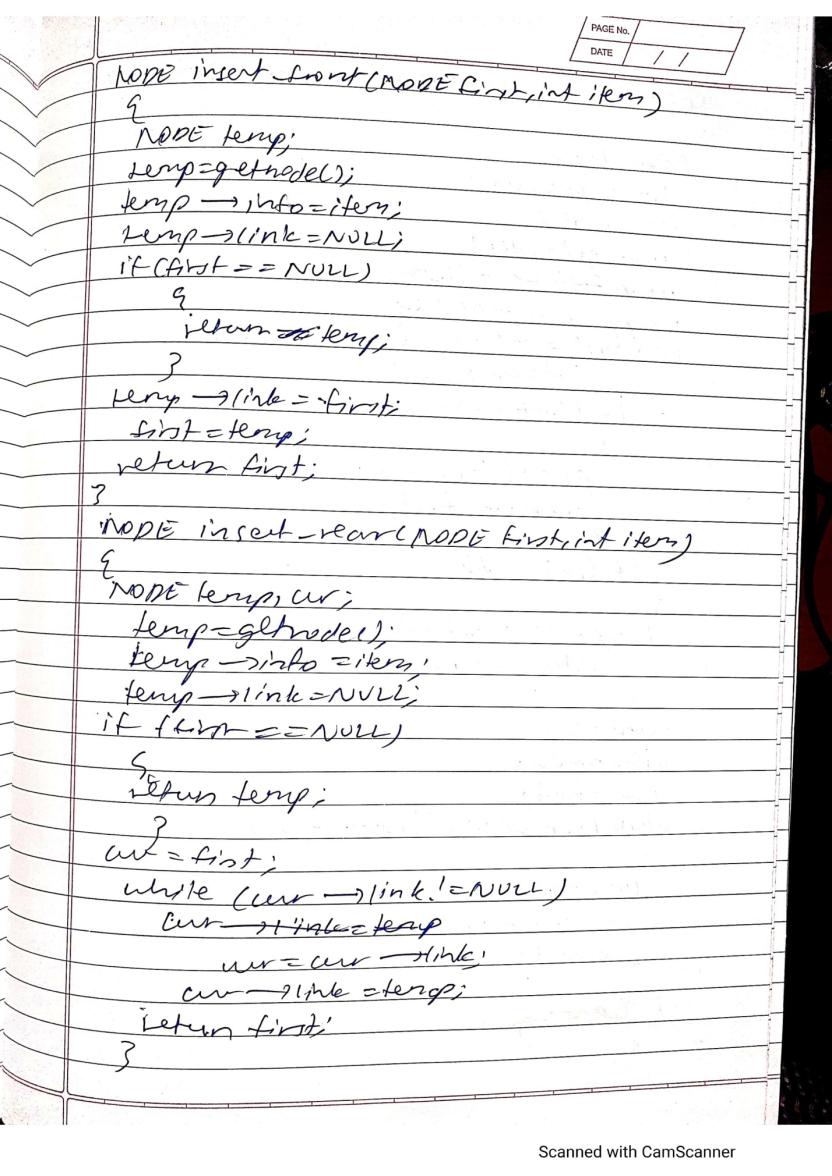
**3.DISPLAY**

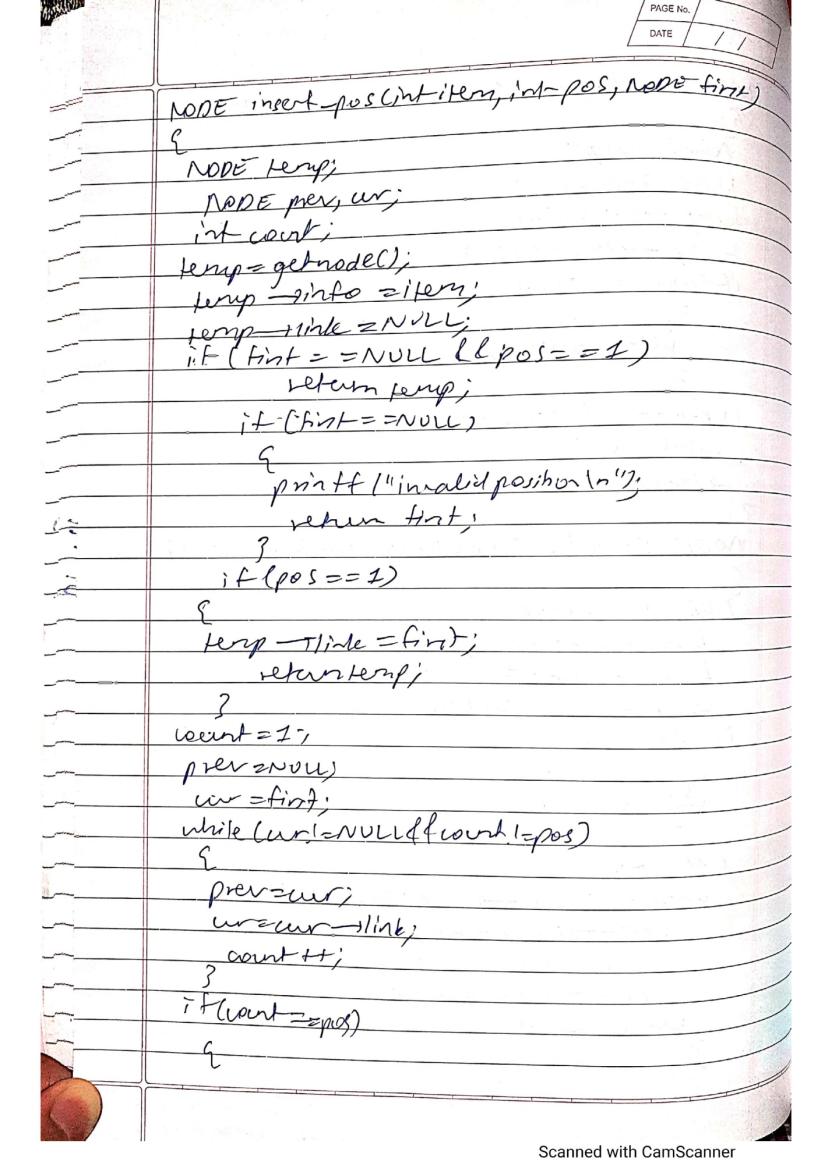


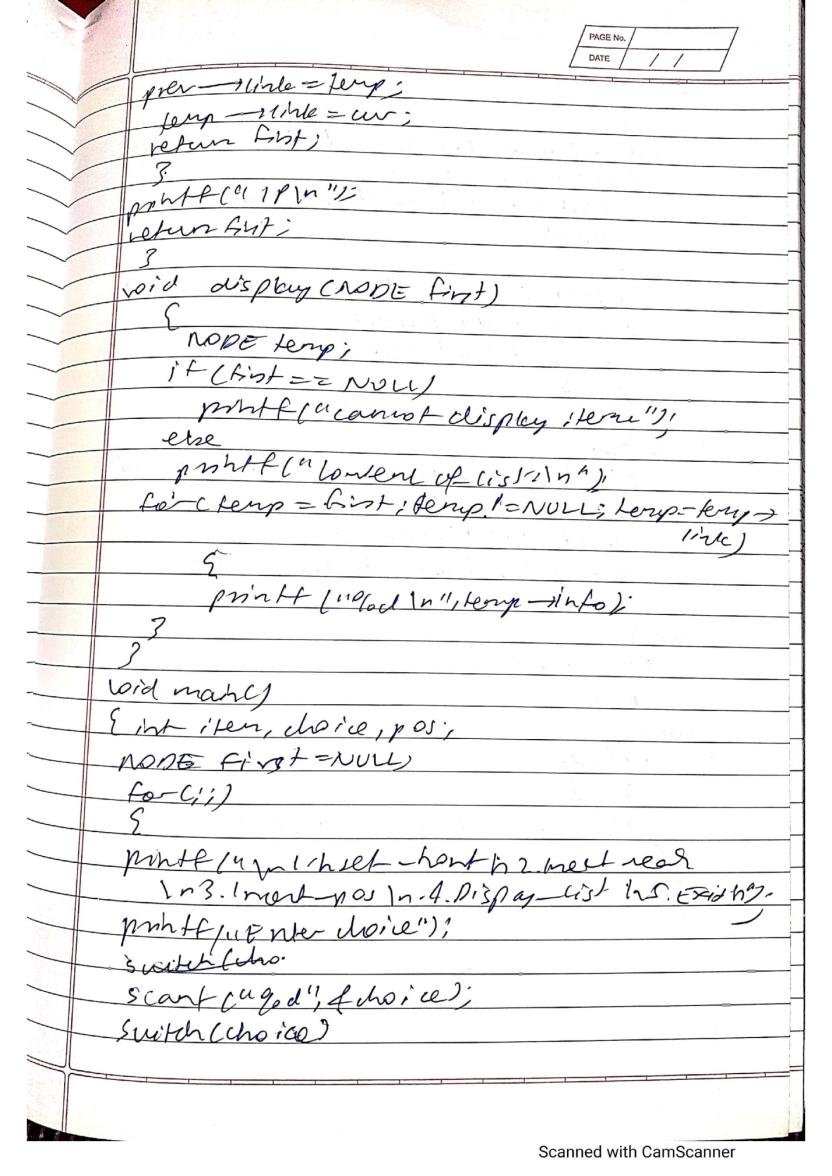
**5.**

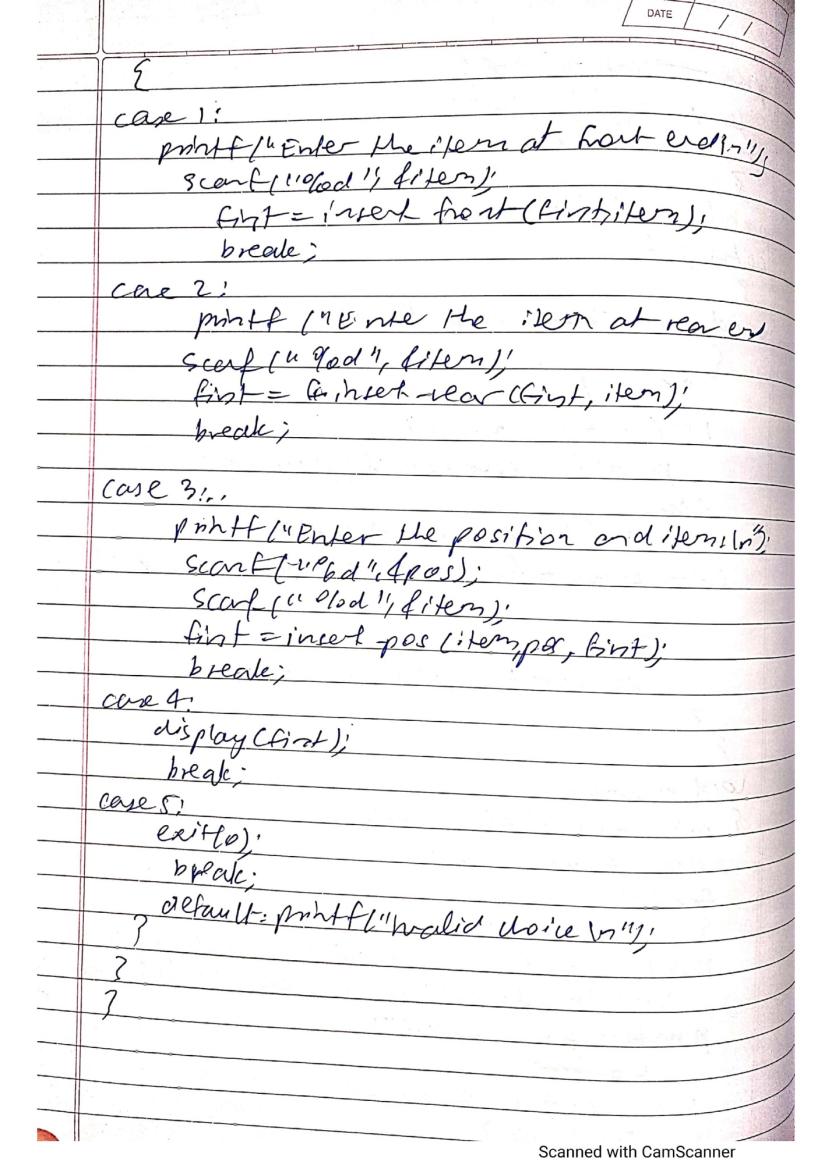
****



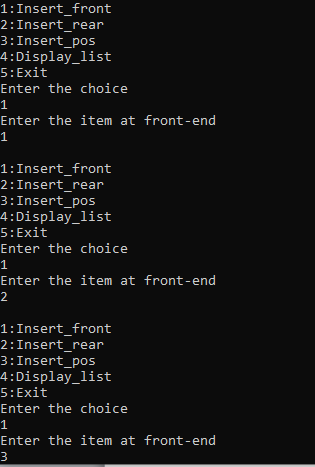




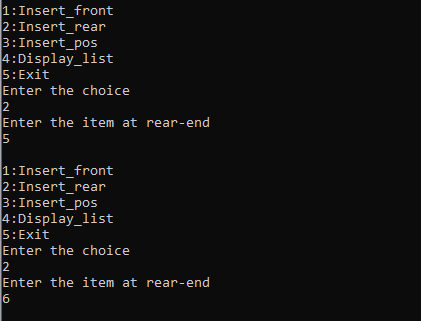


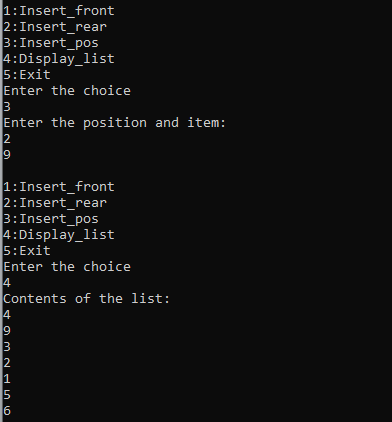


**OUTPUT:**

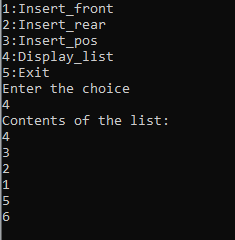
**1.INSERT FRONT**

**2.INSERT REAR**

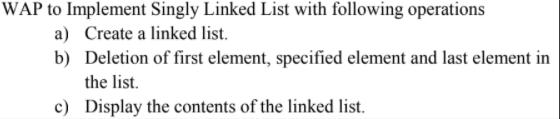


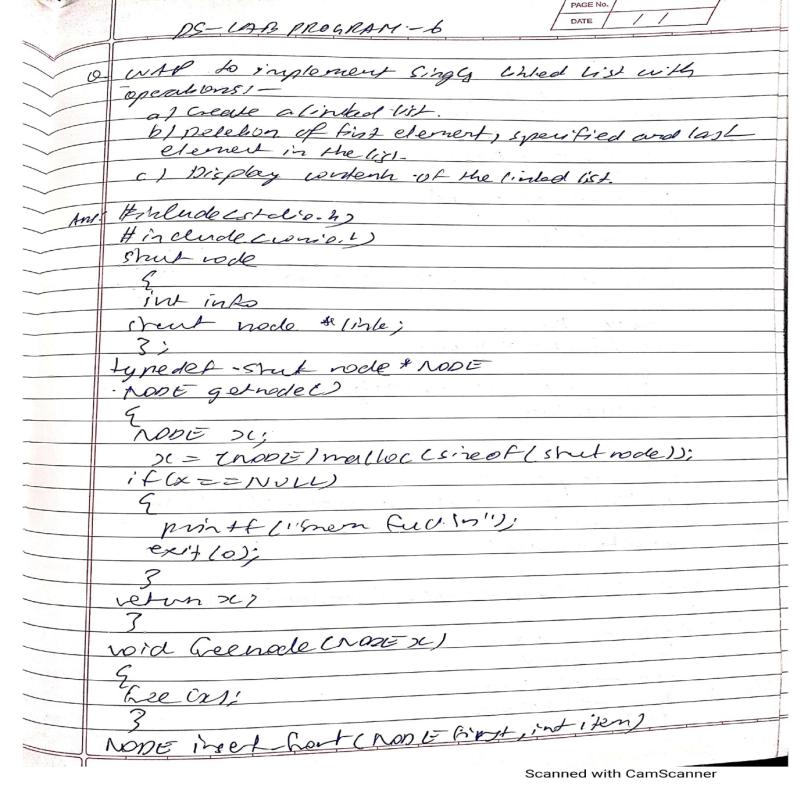
**3.INSERT POS**

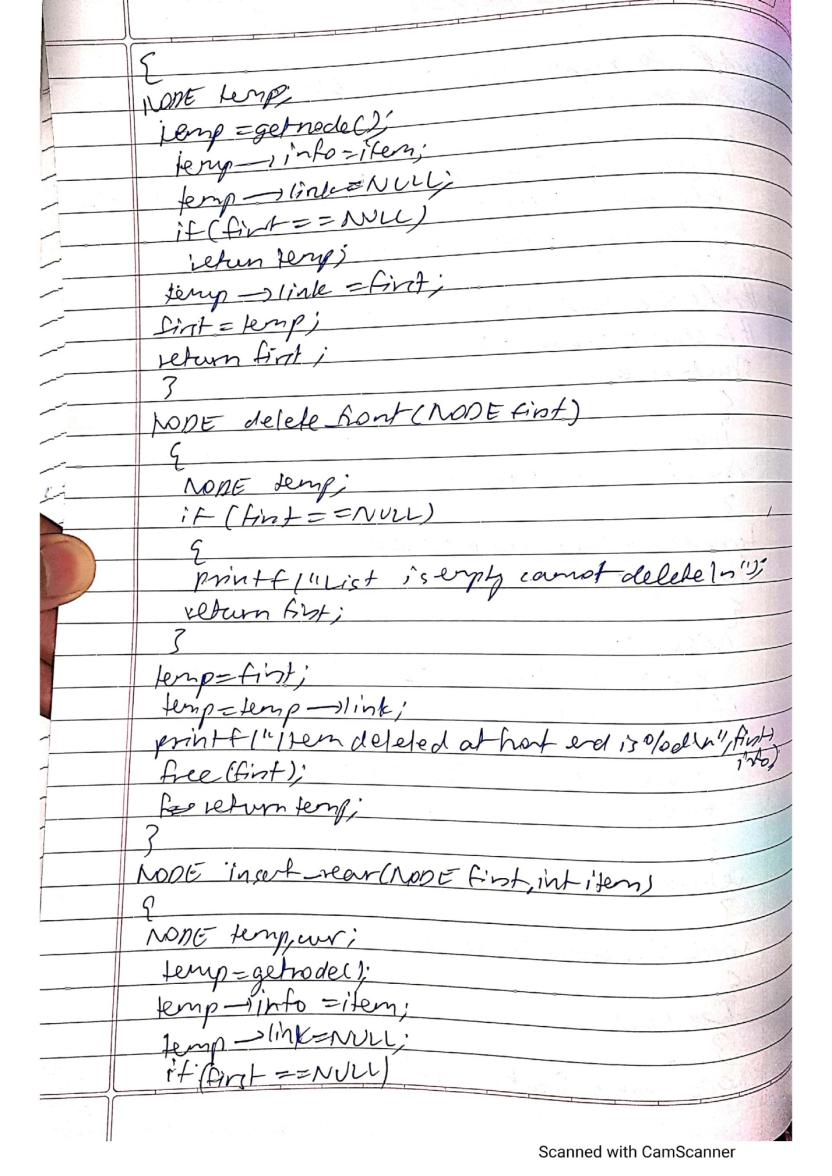
**4.DISPLAY**

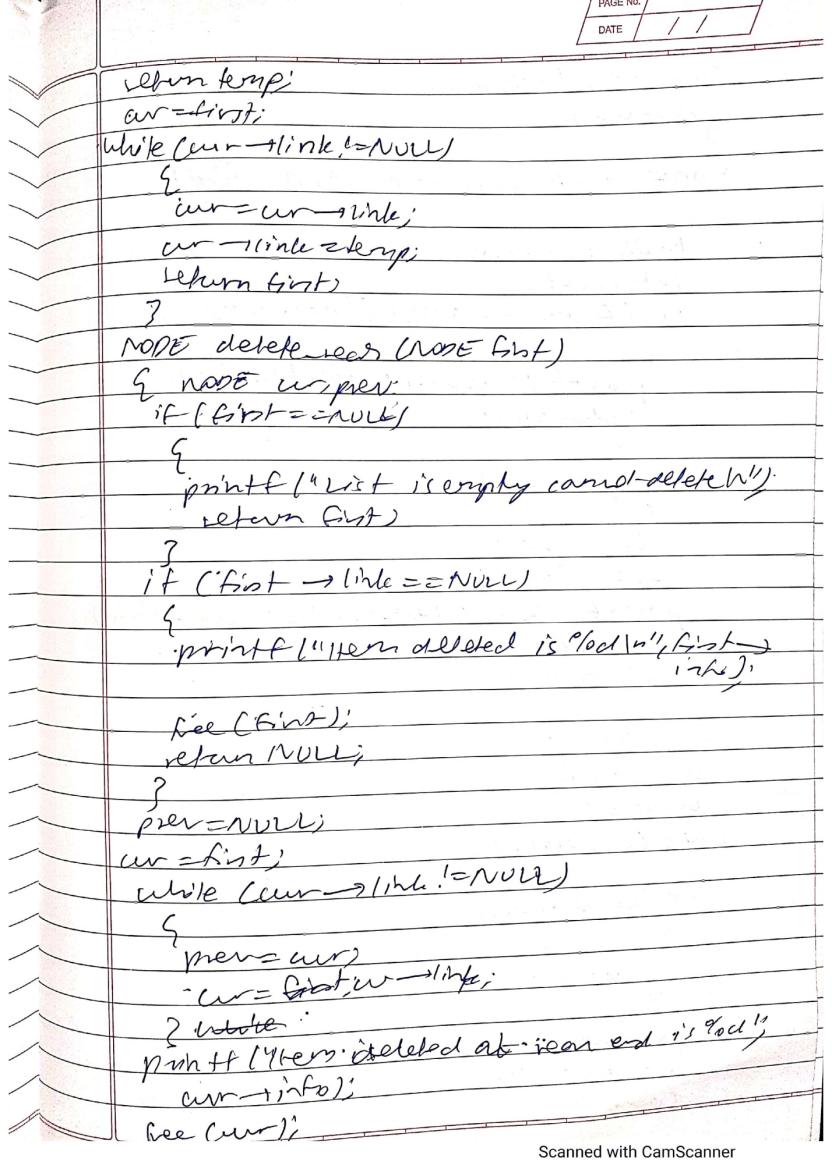


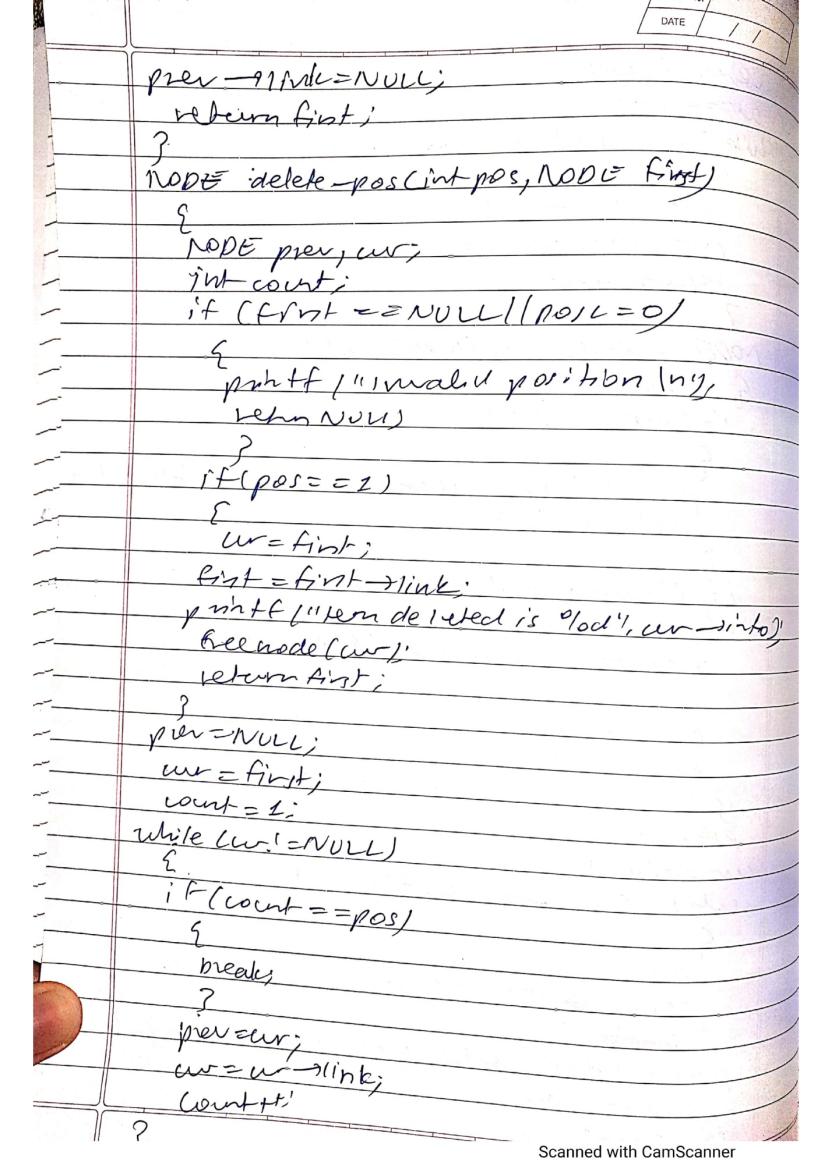
**6.**

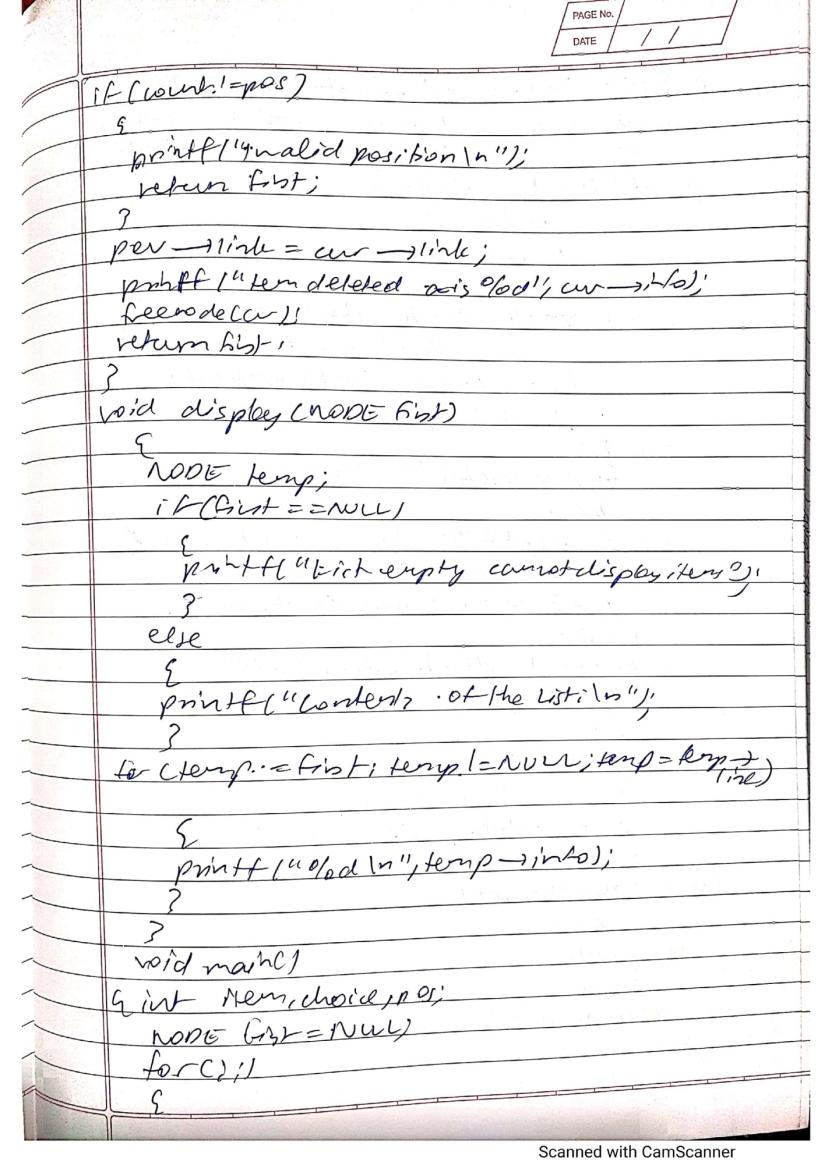
****

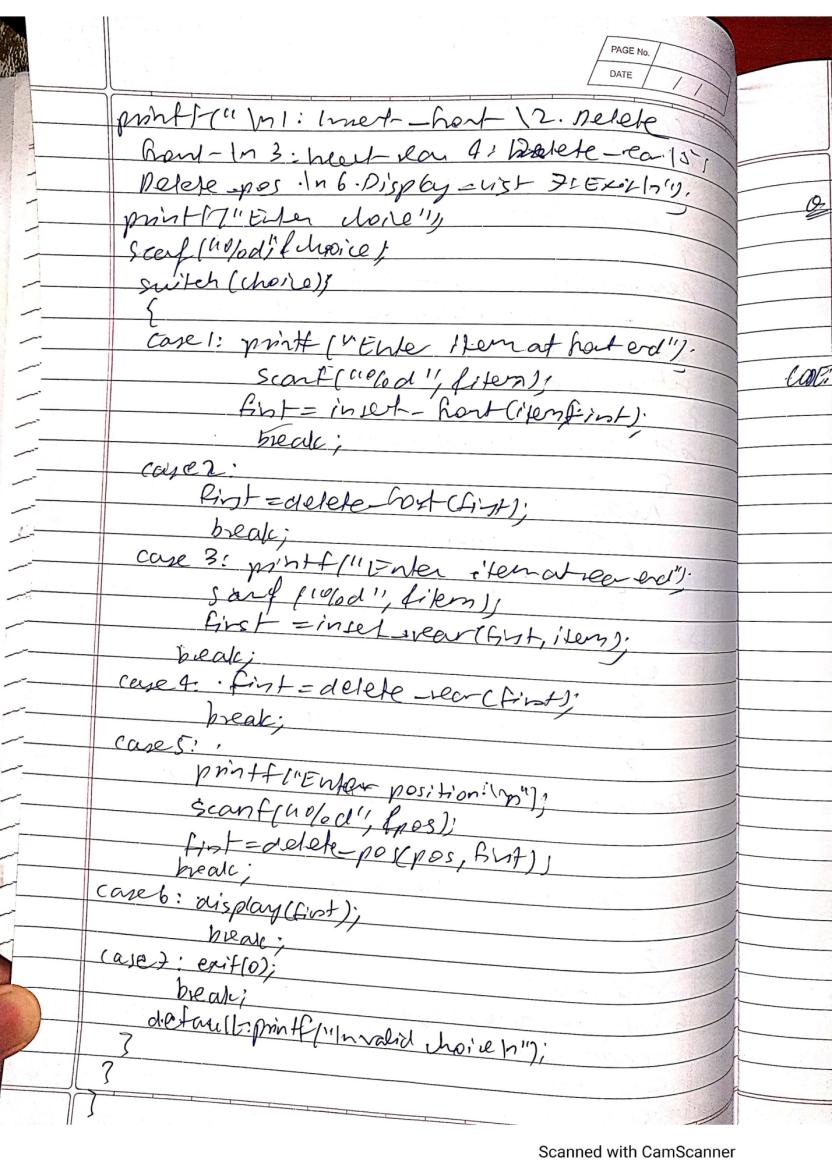




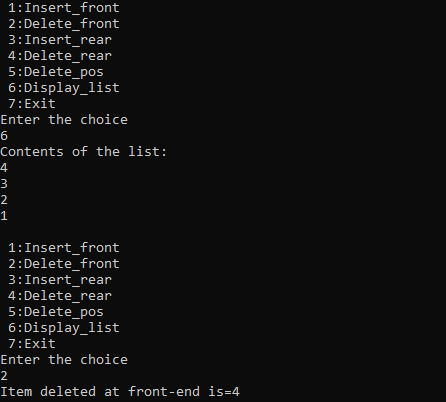


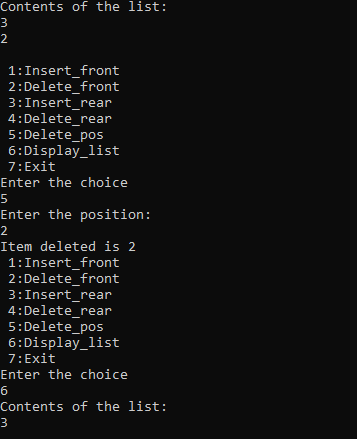




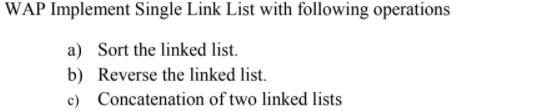


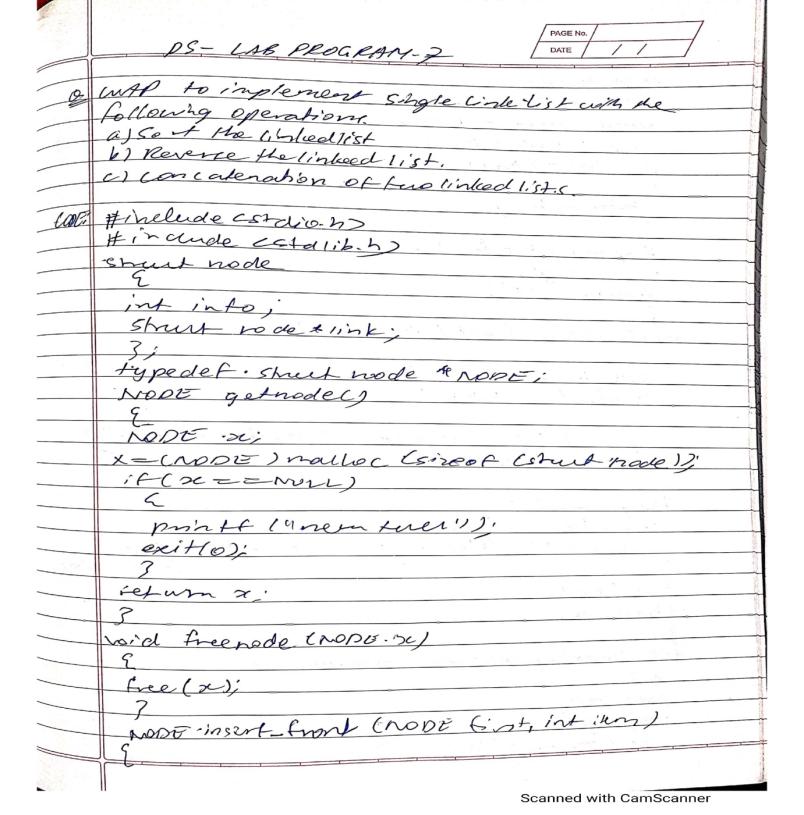
**OUTPUT:**

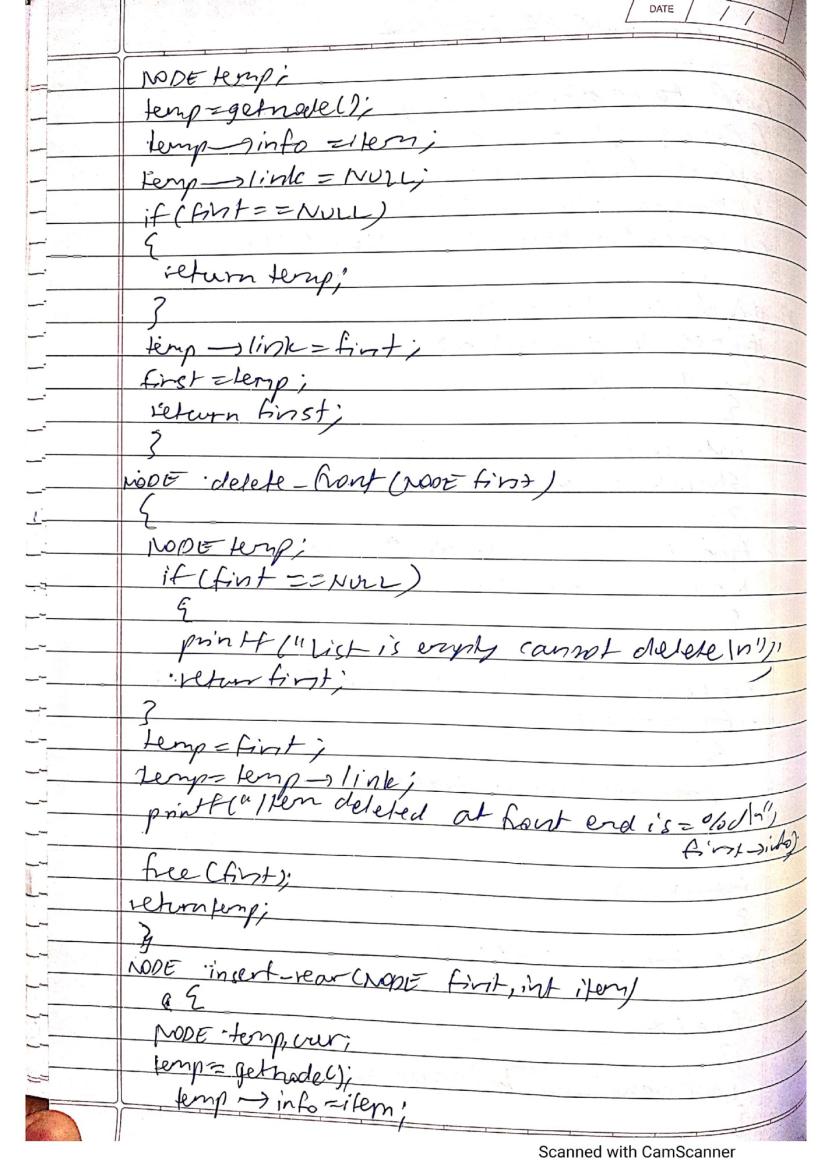
1. **DELETE FRONT AND DELETE REAR**

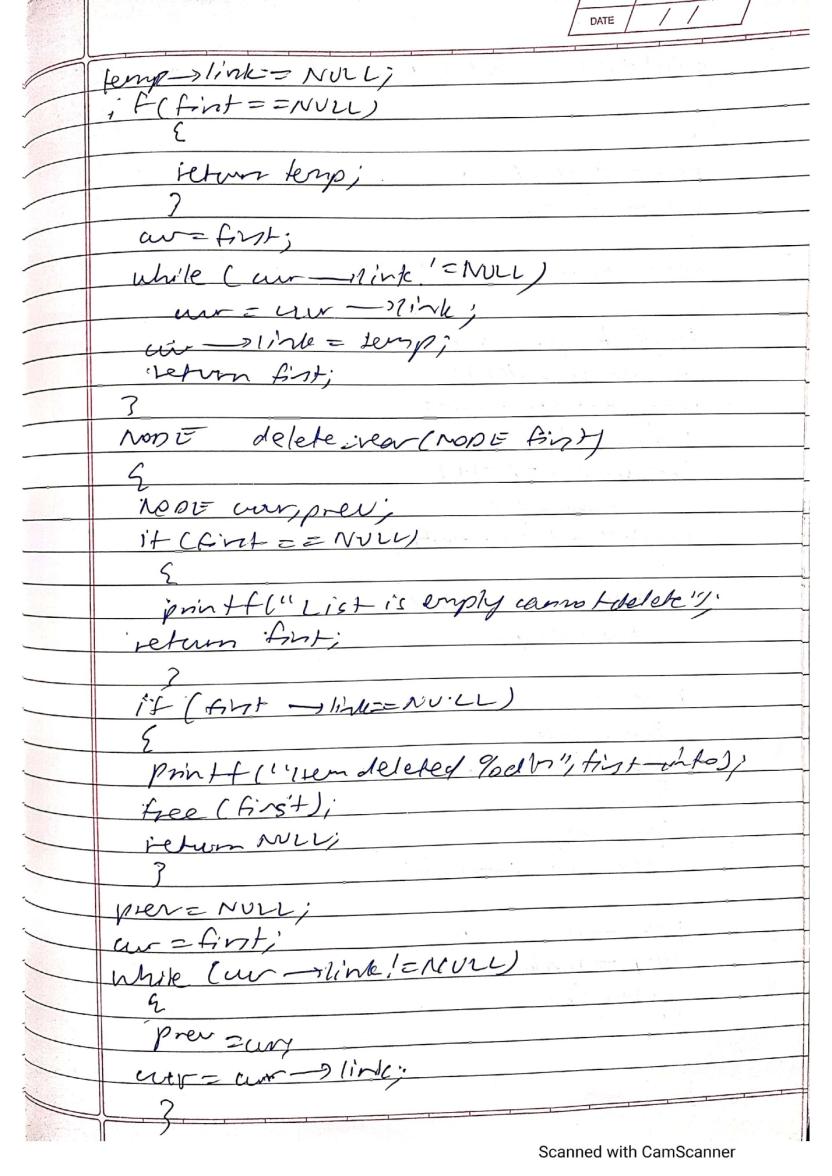
1. **DELETE AT POS**

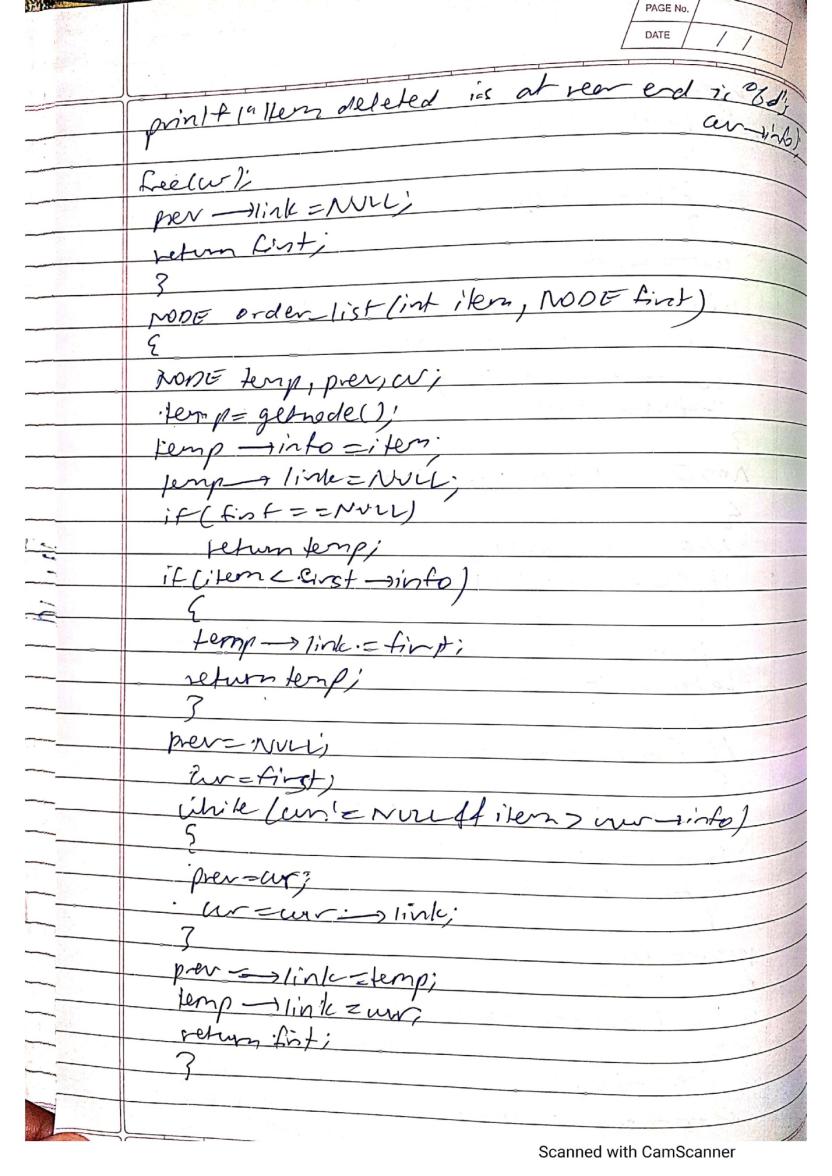
**7.**

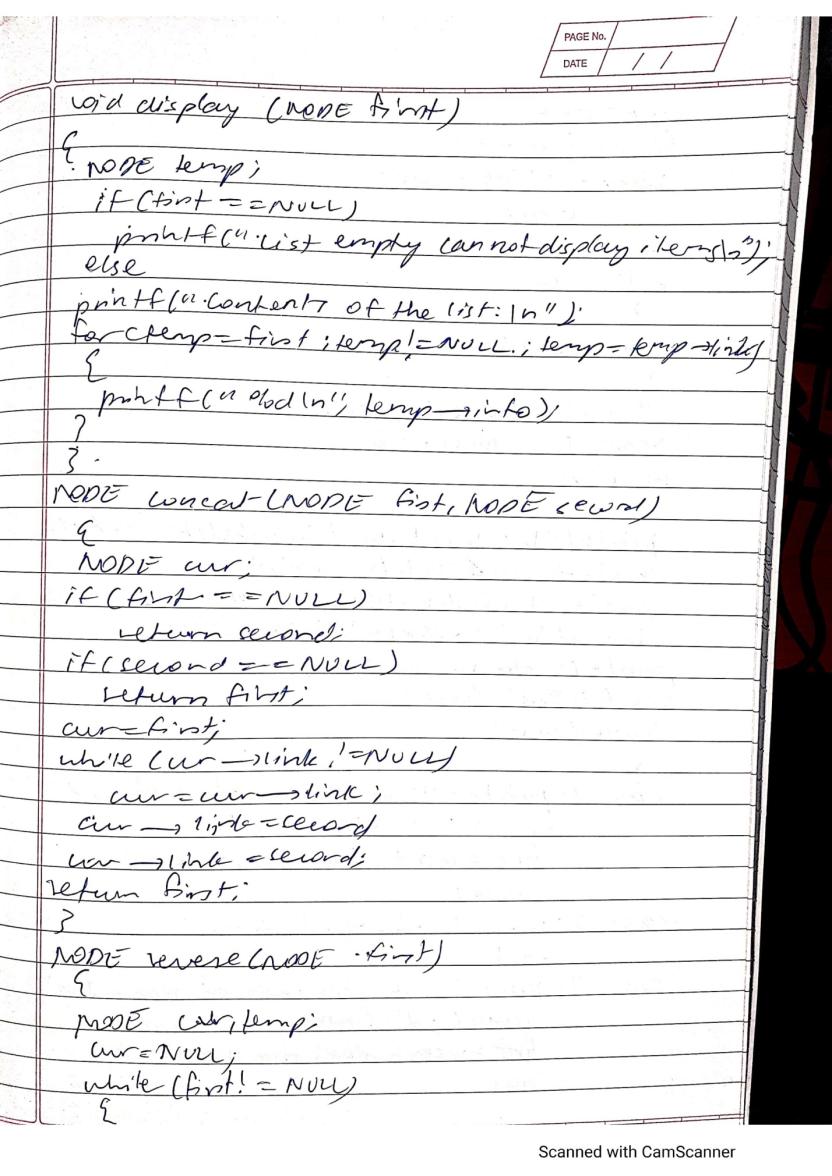
****

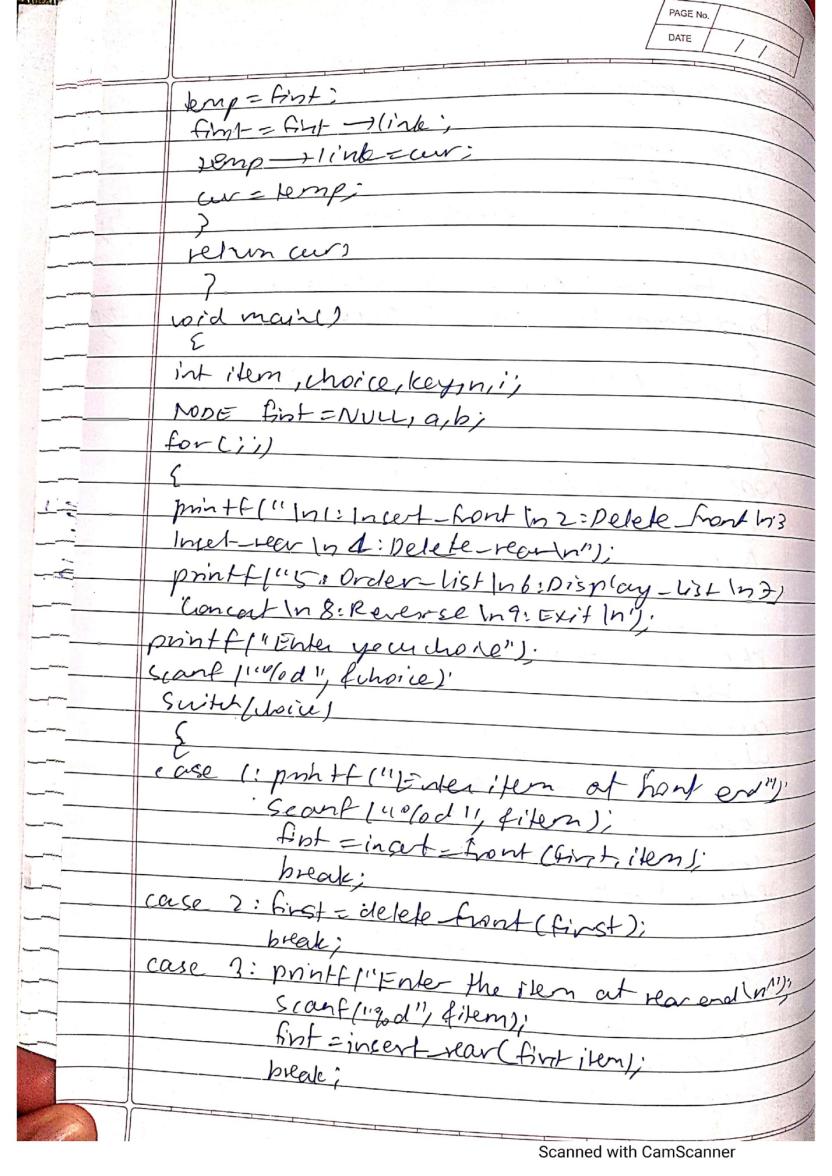


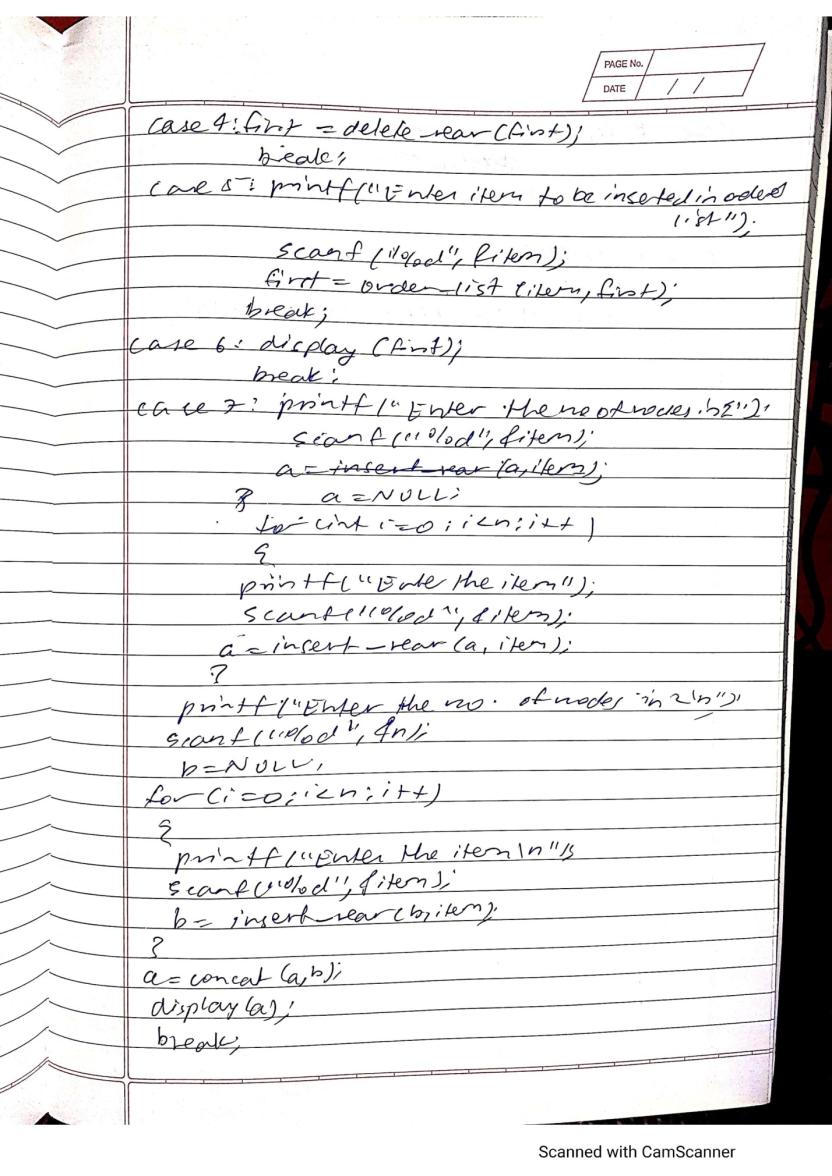


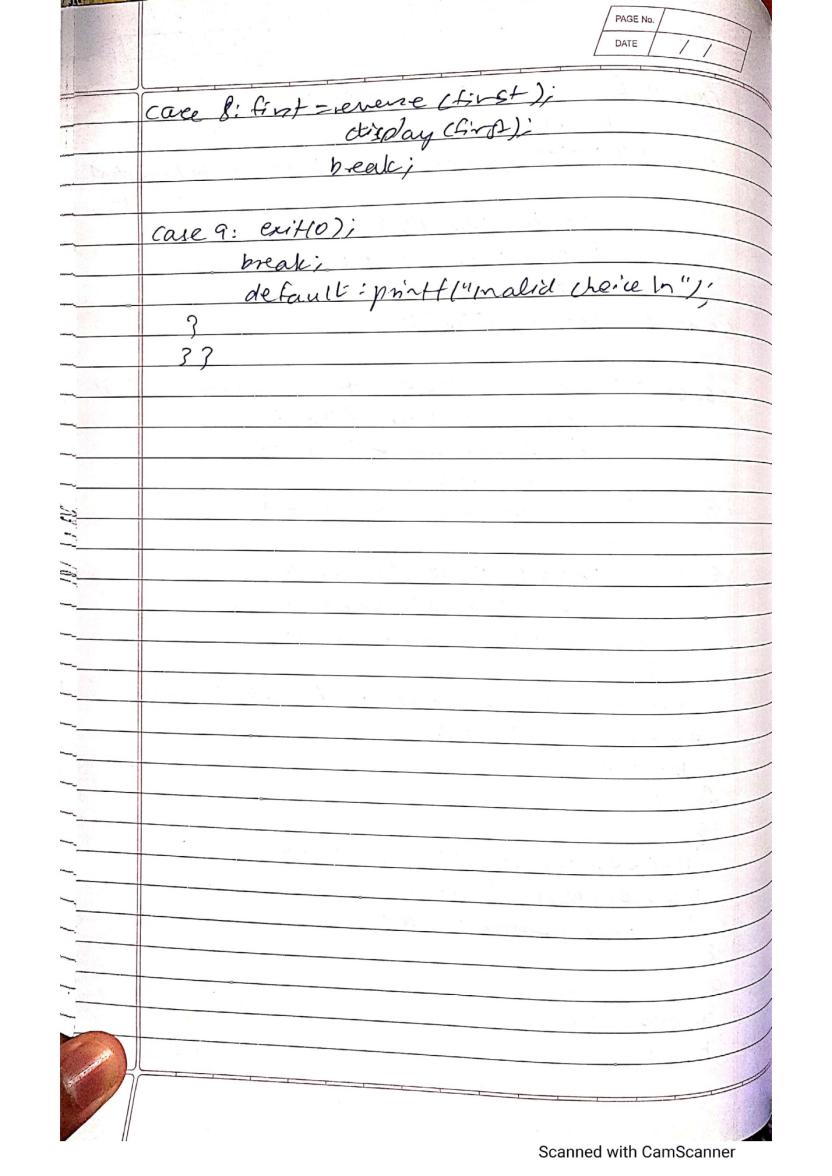






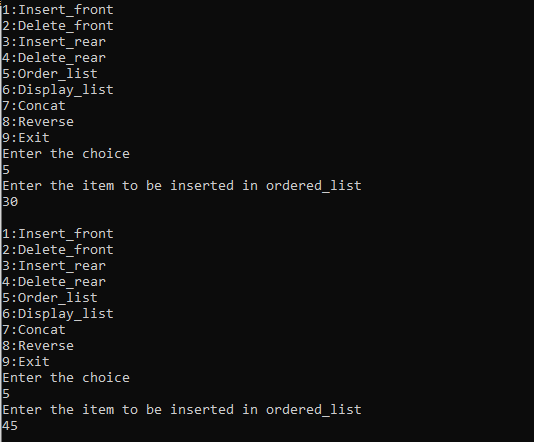


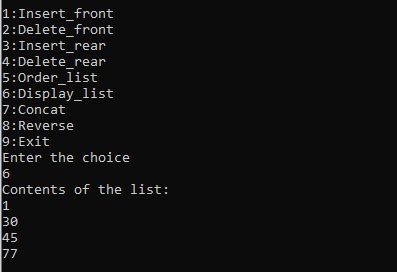




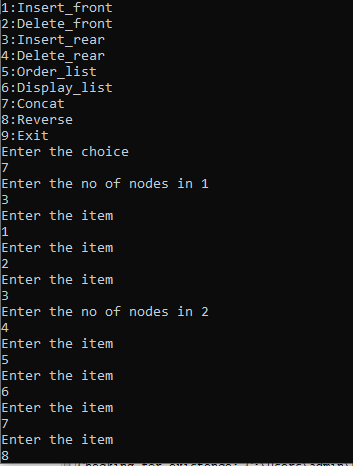
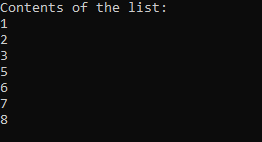
**OUPUT:**

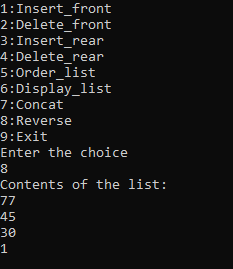
1. **SORT THE LINKED LIST**





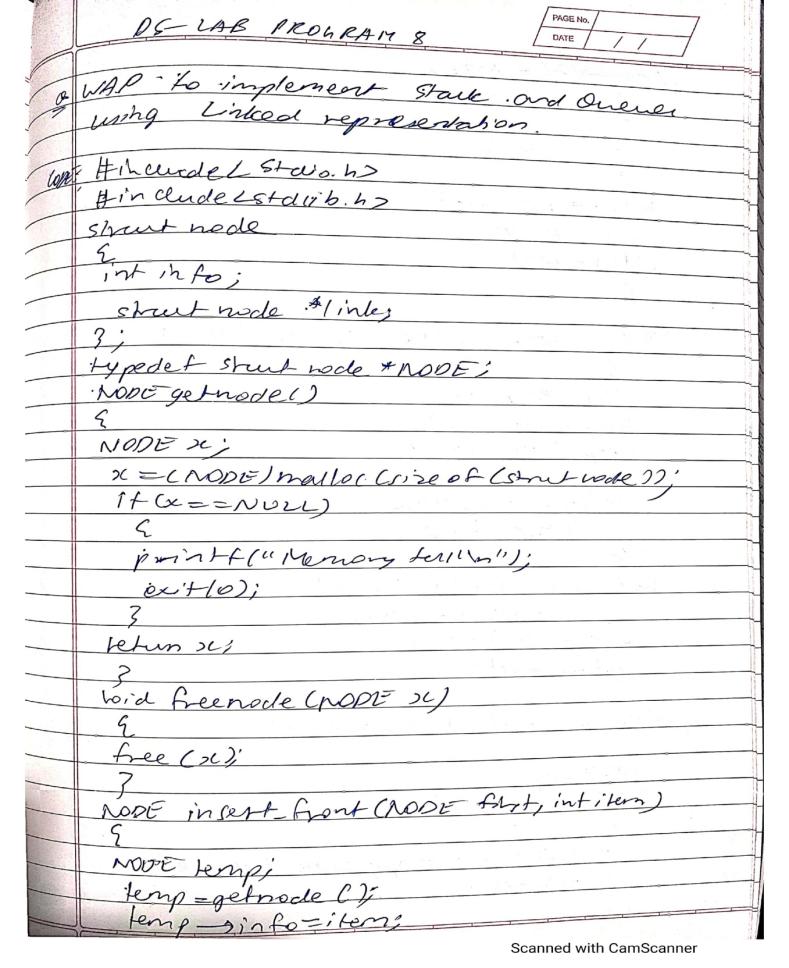
**2.CONCAT THE LINKED LIST**

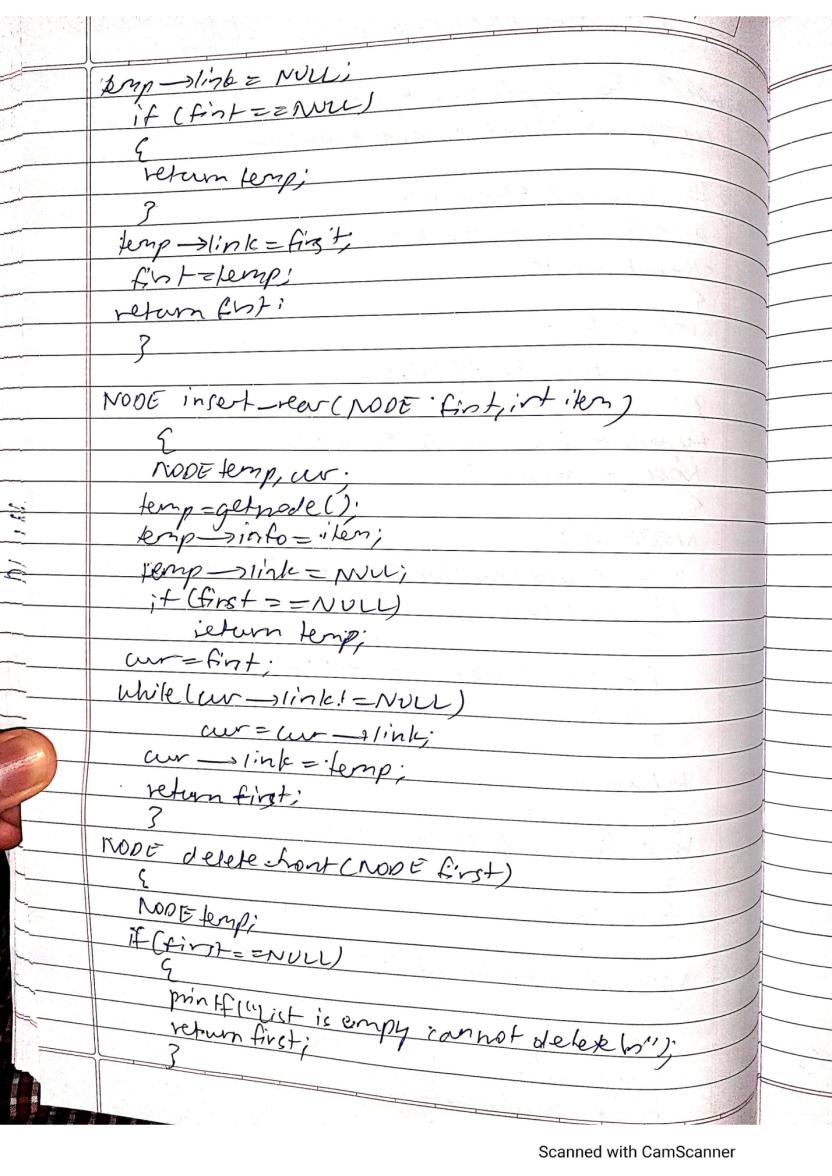


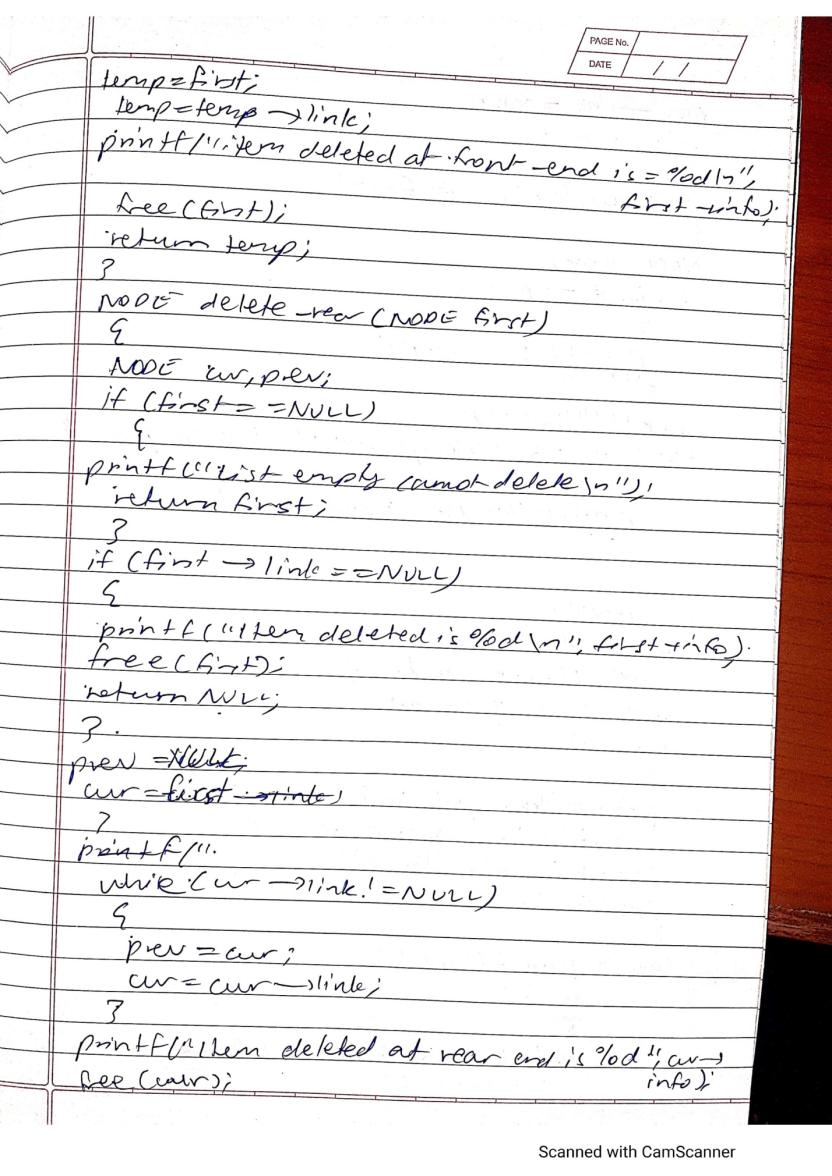
**3.REVERSE THE LINKED LIST**

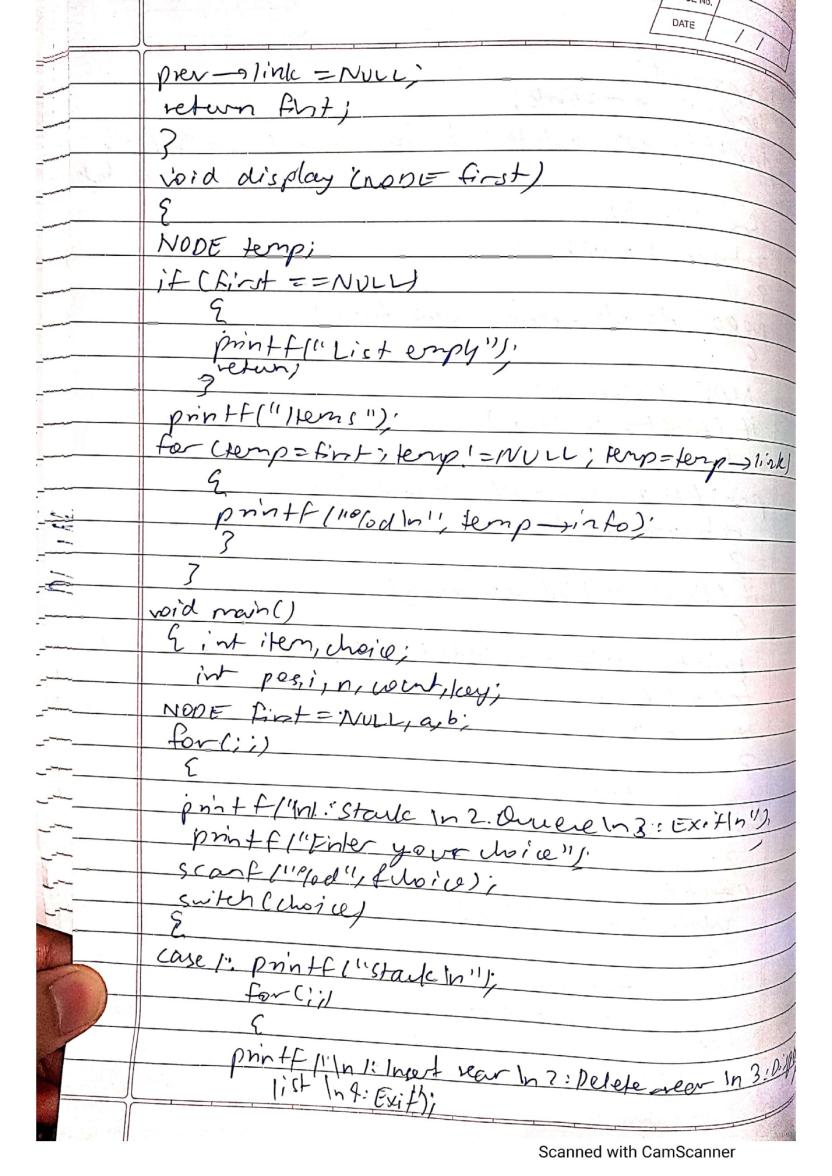
**8.**

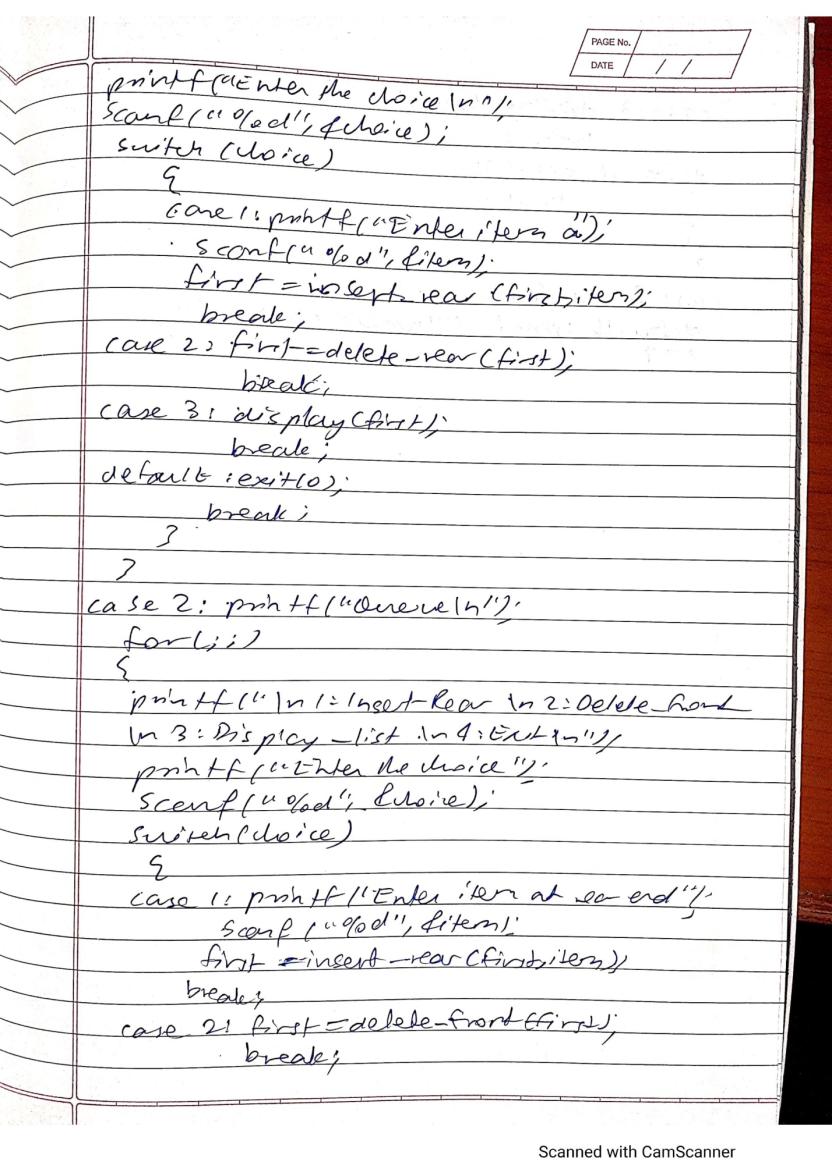
**C:\Users\admin\Documents\ds_lab8_ss.PNG**





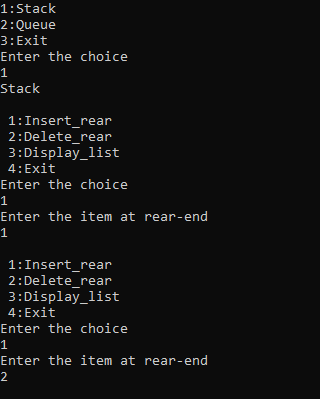


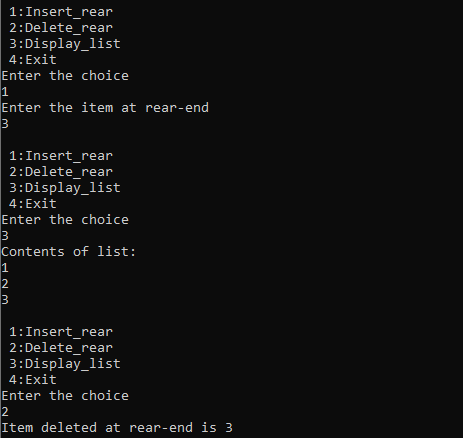
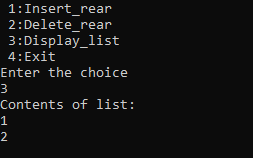




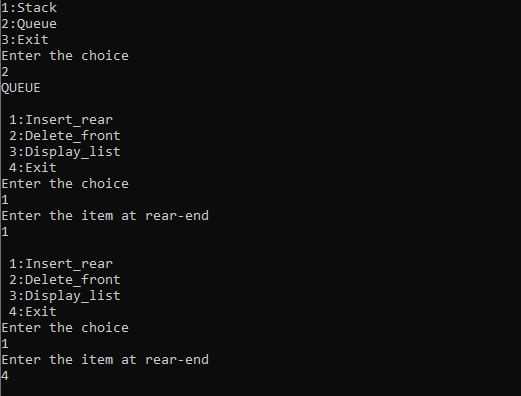
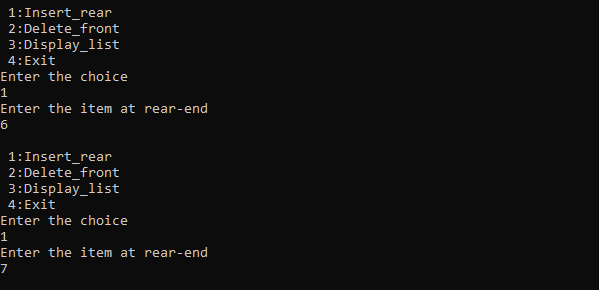


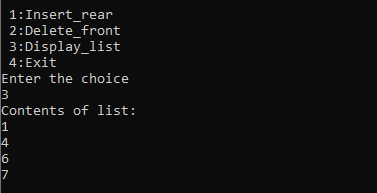
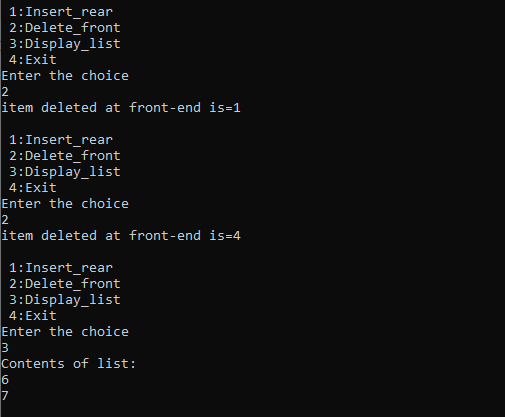
**OUTPUT:**

**1.STACK IMPLEMENTATION**

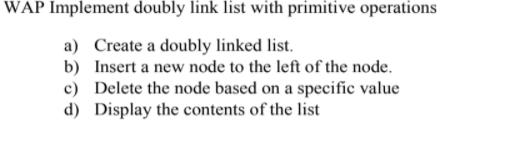


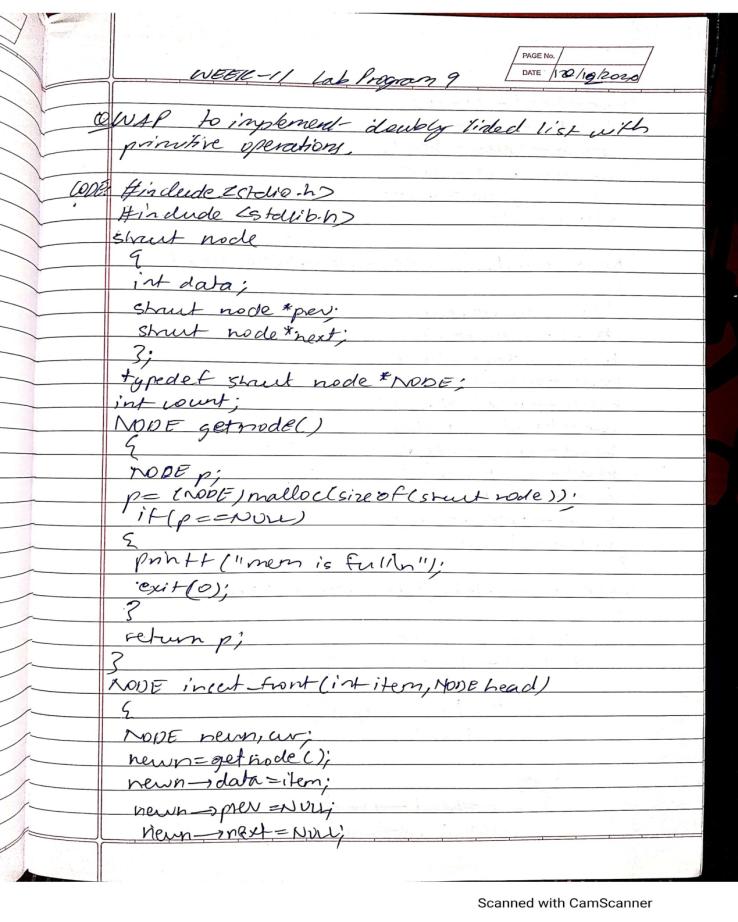
**2.QUEUE IMPLEMENTATION**

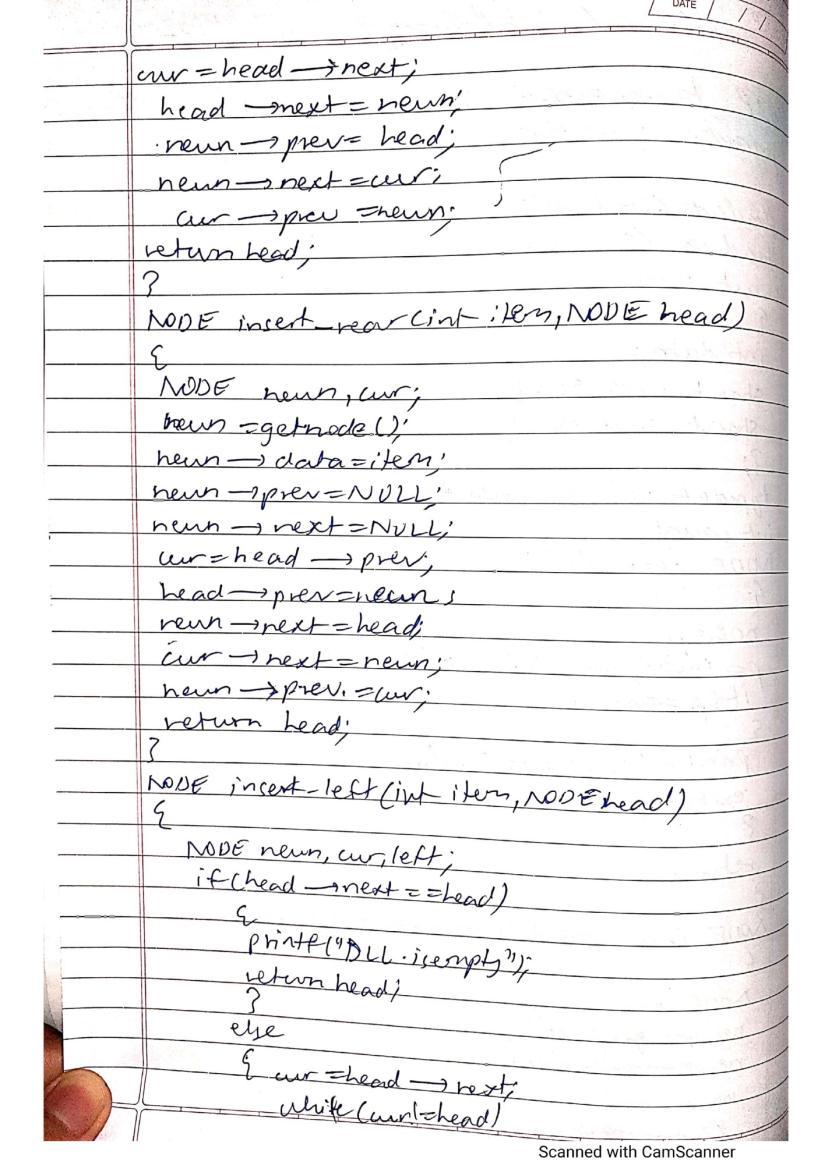


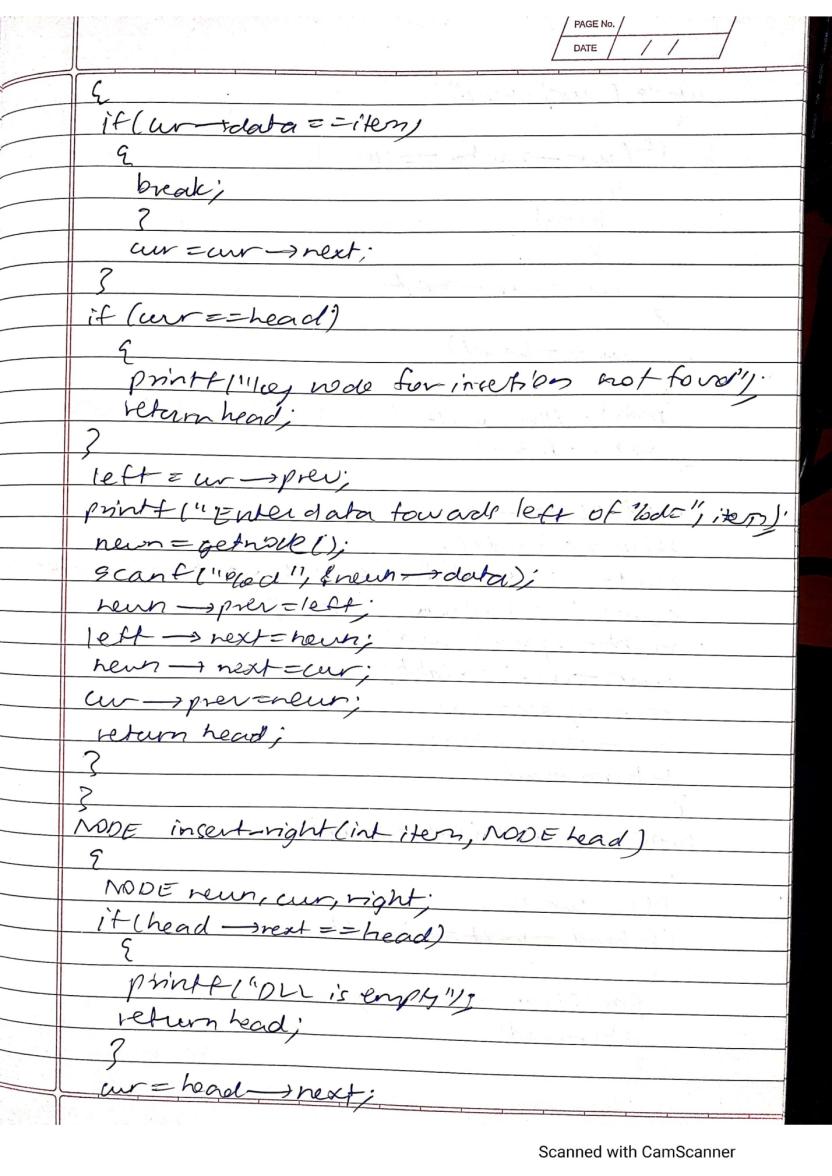


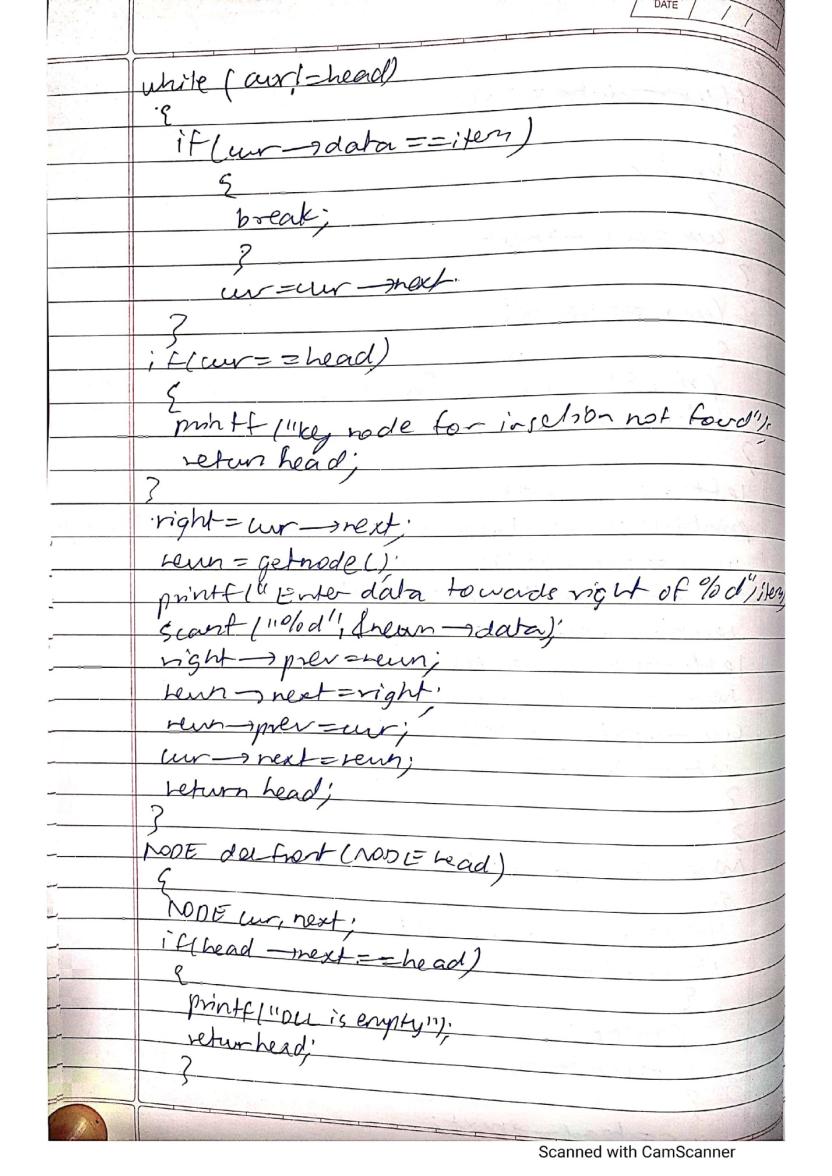
**9.**

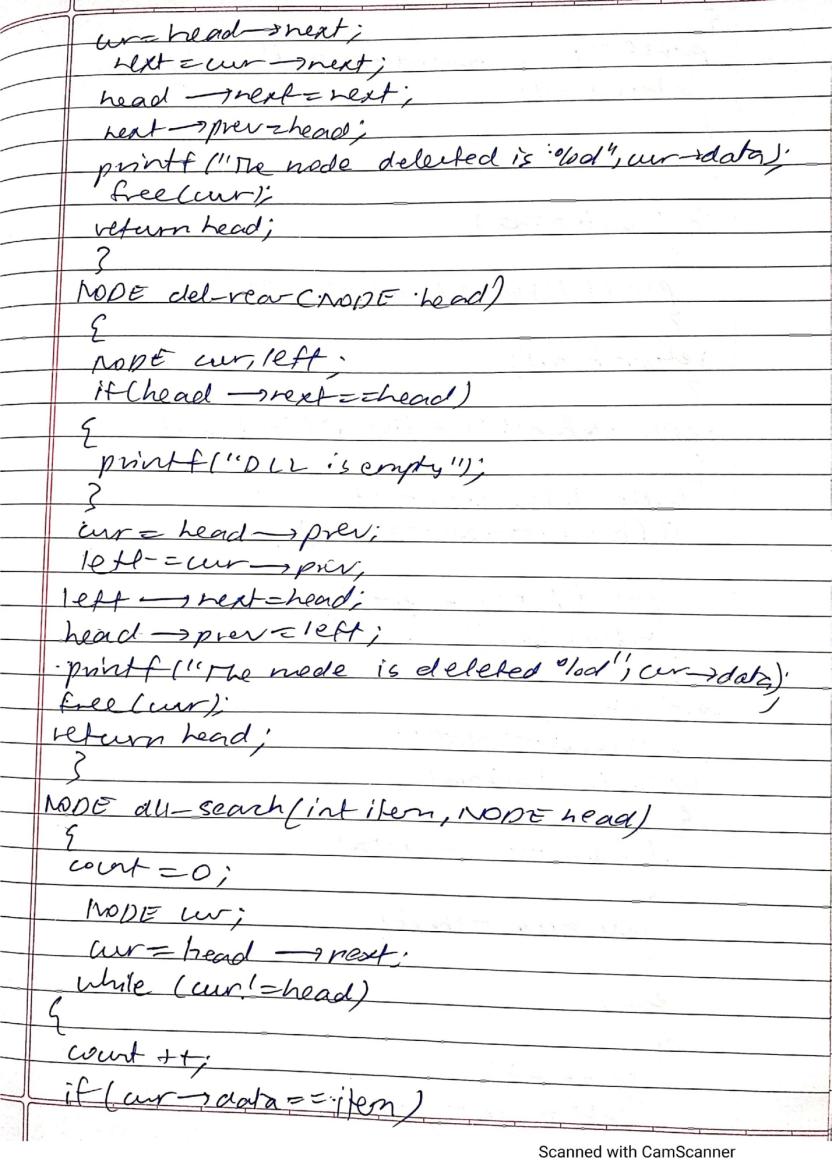
****

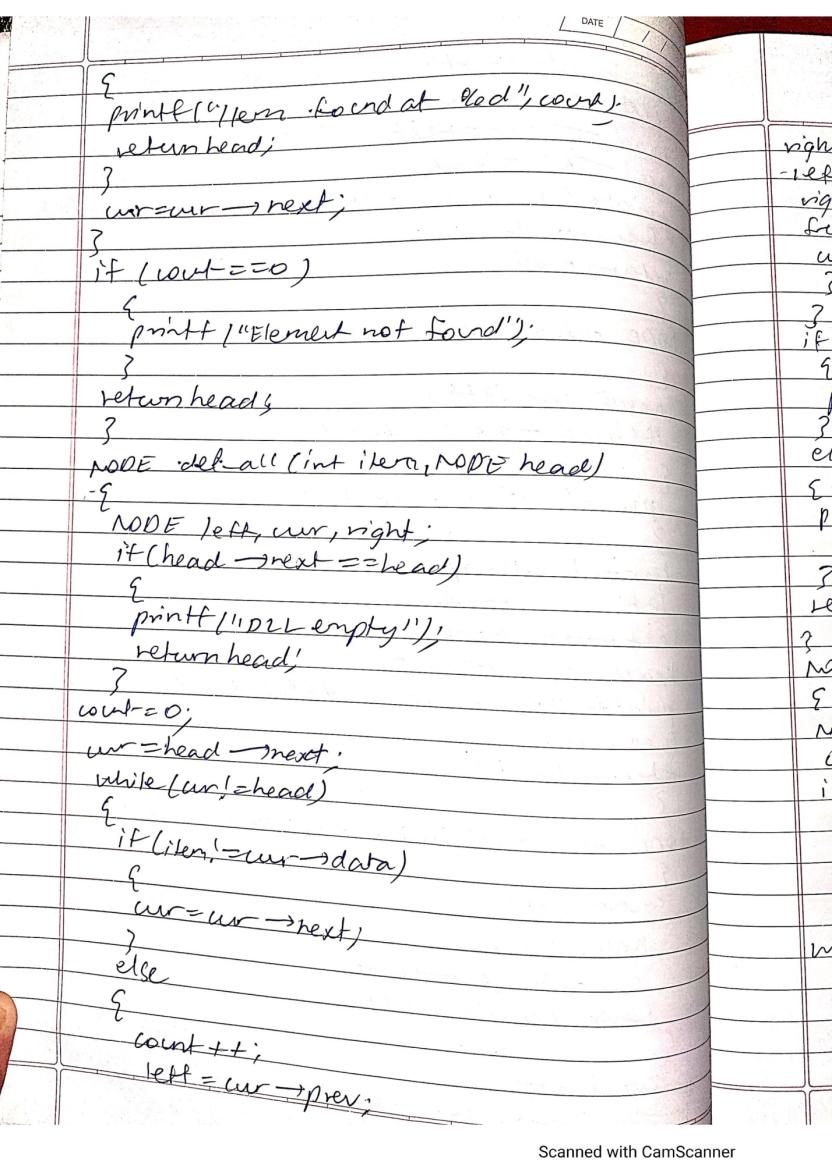


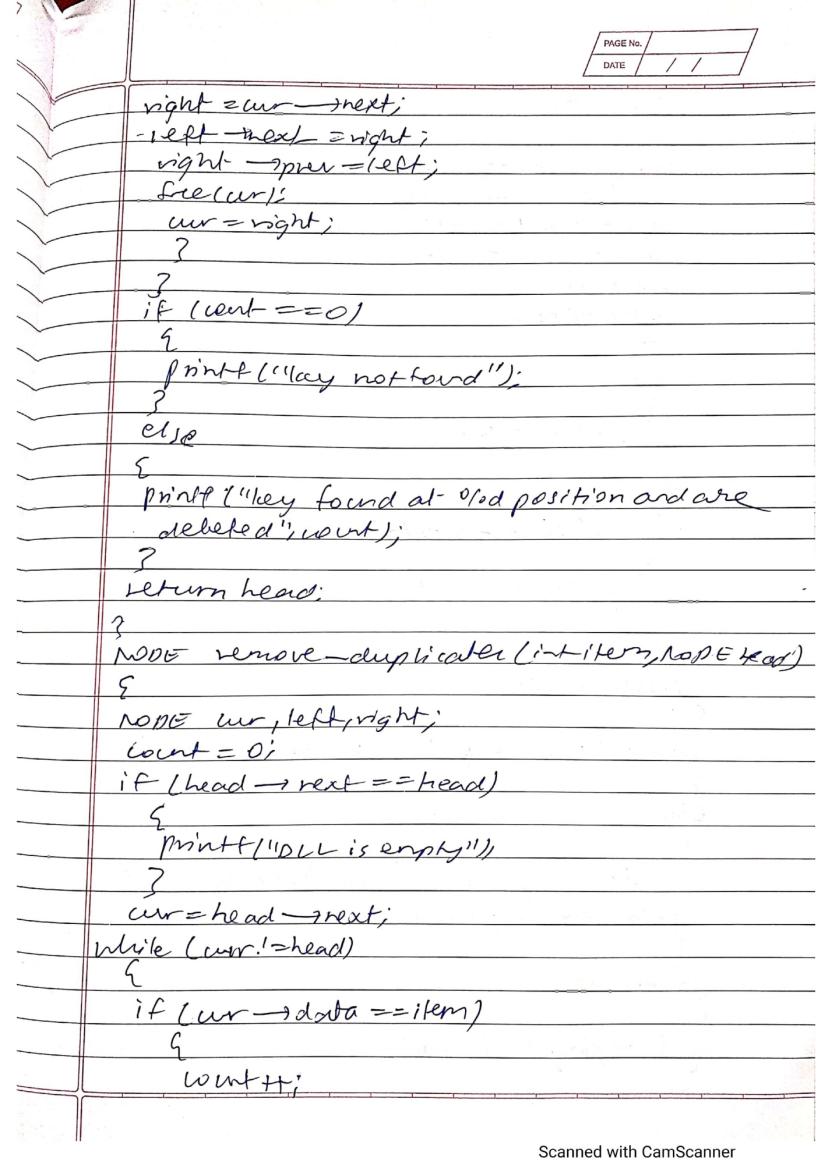


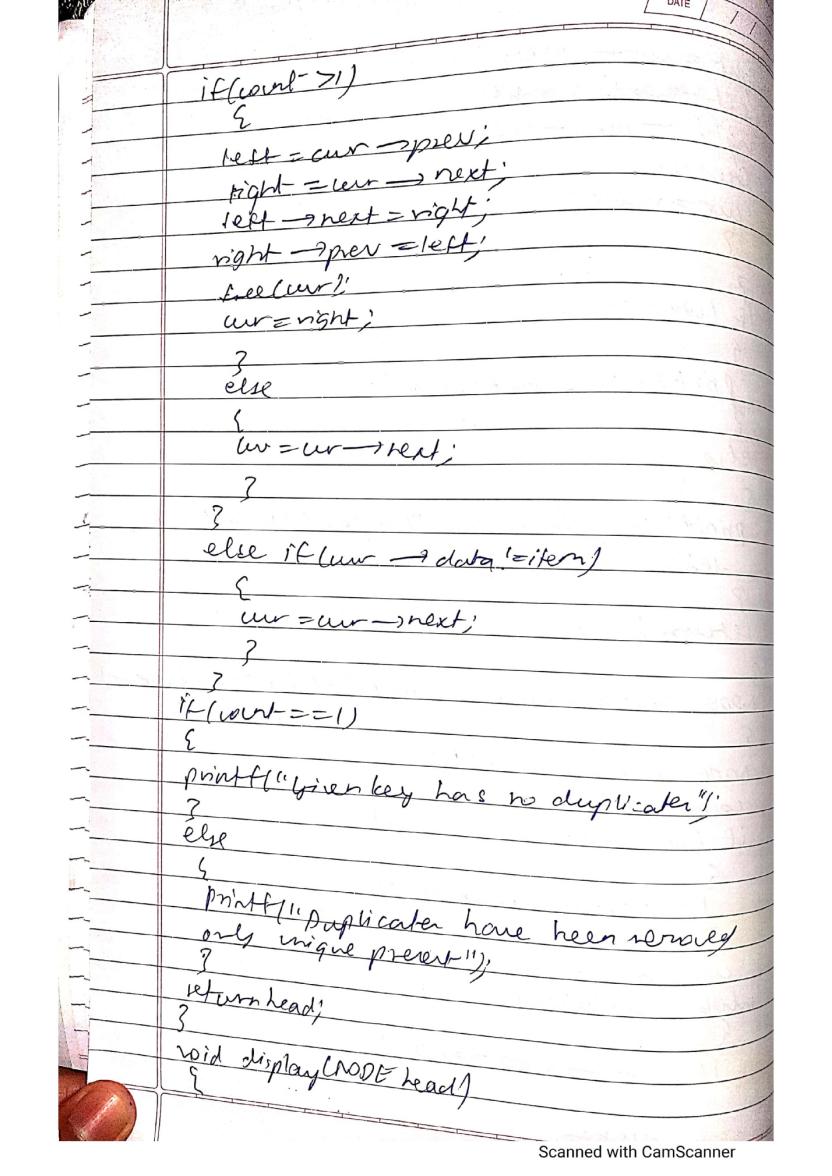


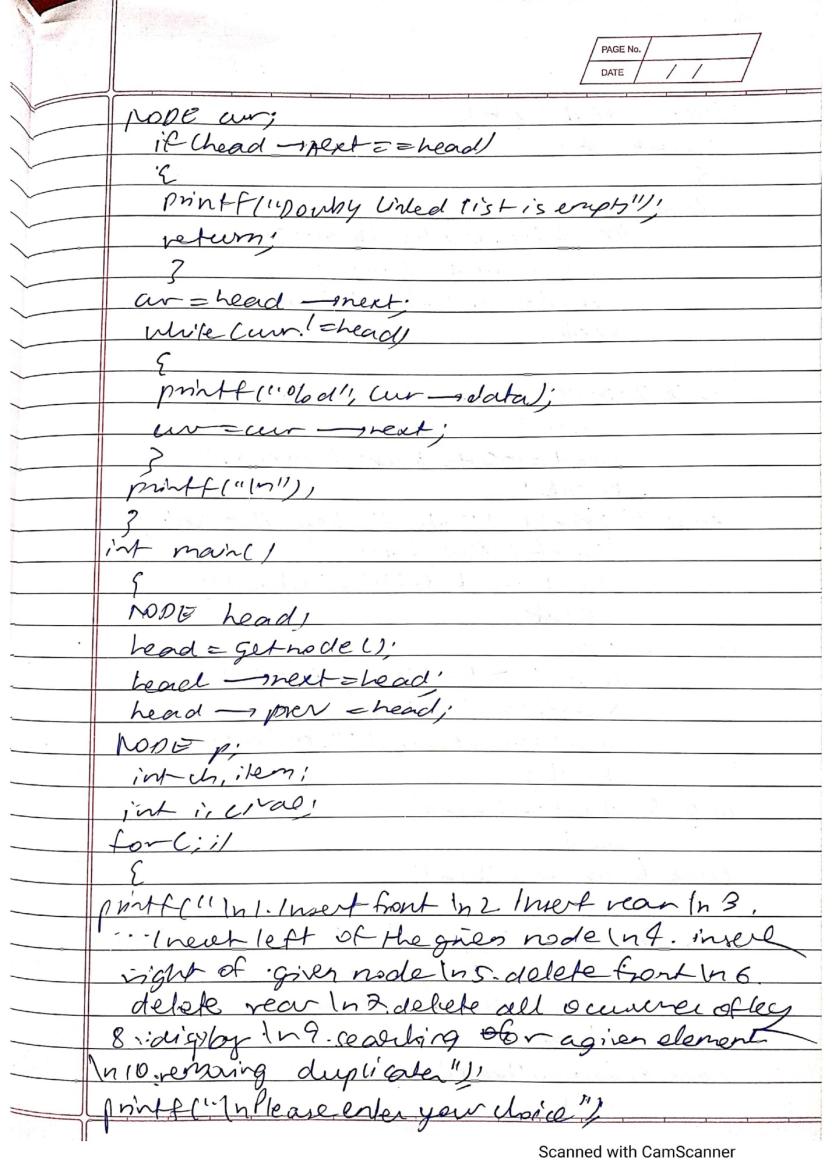


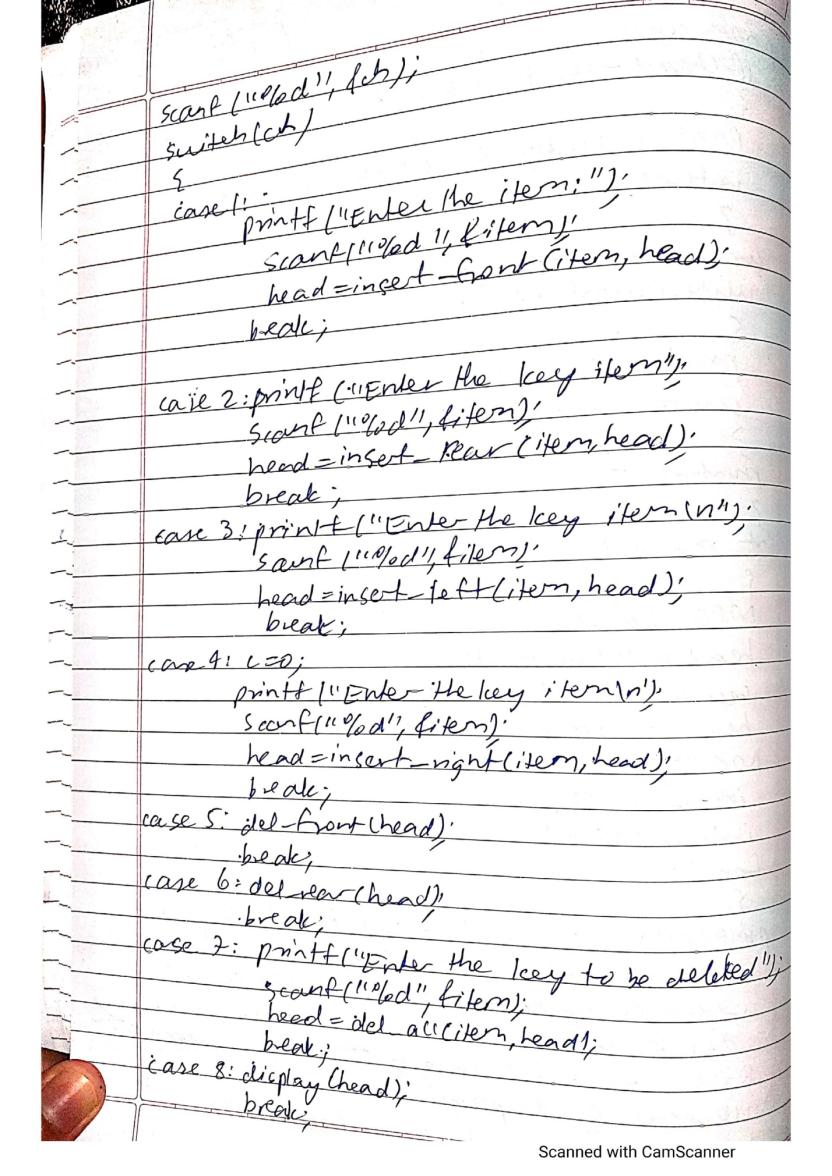








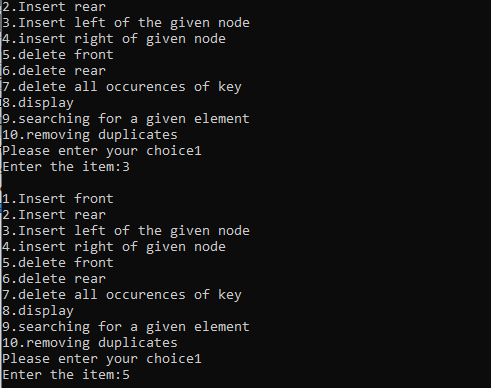


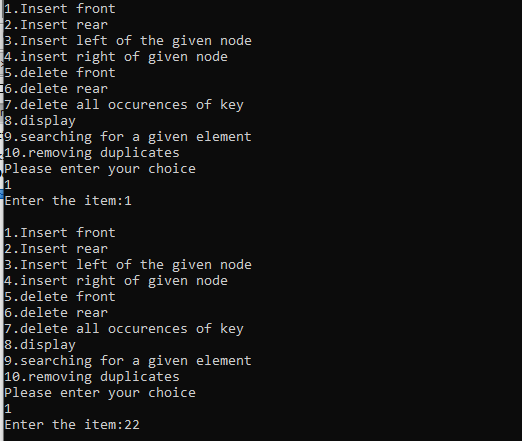


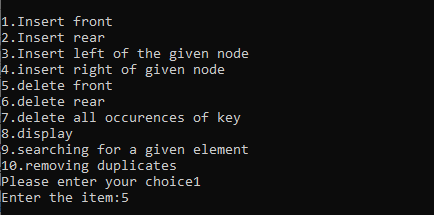


**OUTPUT:**

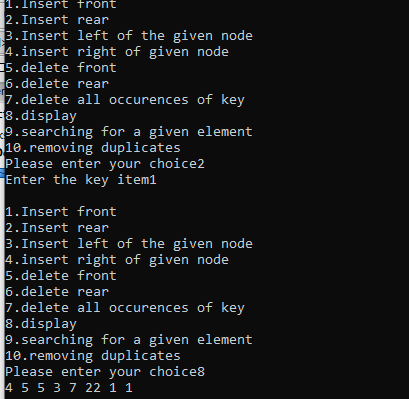
**Function wise:**

**1.INSERT FRONT**

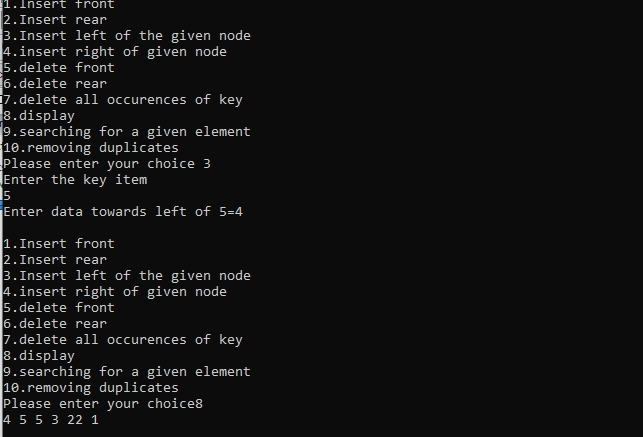




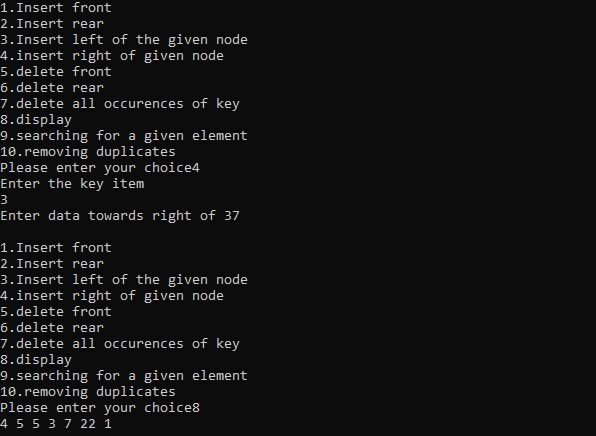
**2.INSERT REAR**



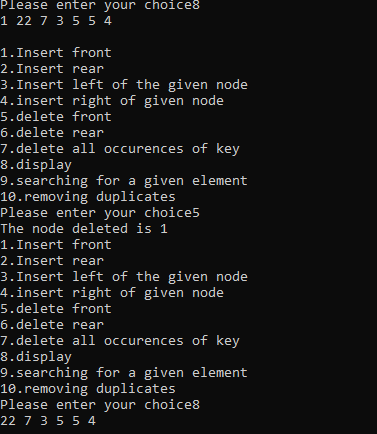
**3.INSERT LEFT**



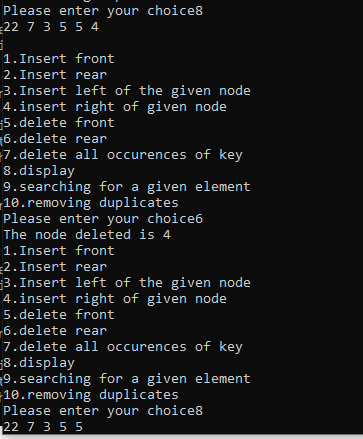
**4.INSERT RIGHT**



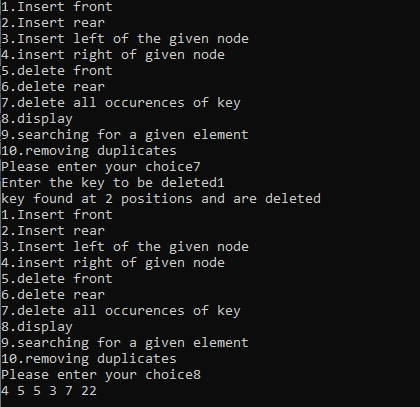
**5.DELETE FRONT**

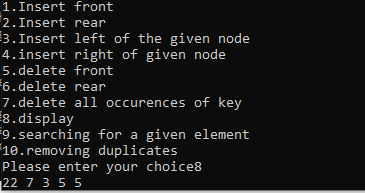


**6.DELETE REAR**

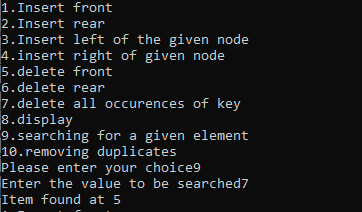


**7.DELETE ALL OCCURENCES**

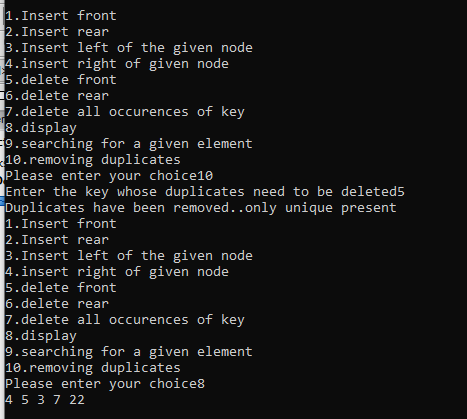
**8.DISPLAY**



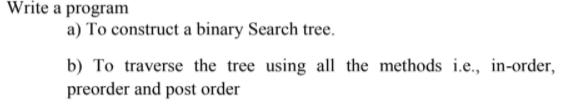
**9.SEARCH FOR KEY**



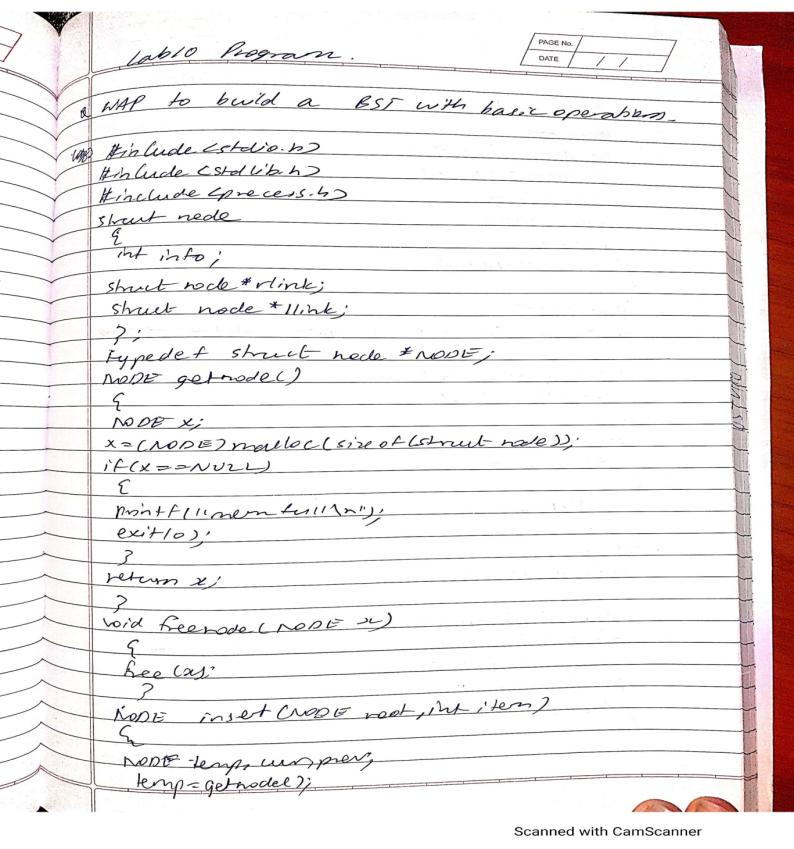
**10.REMOVE DUPLICATES**

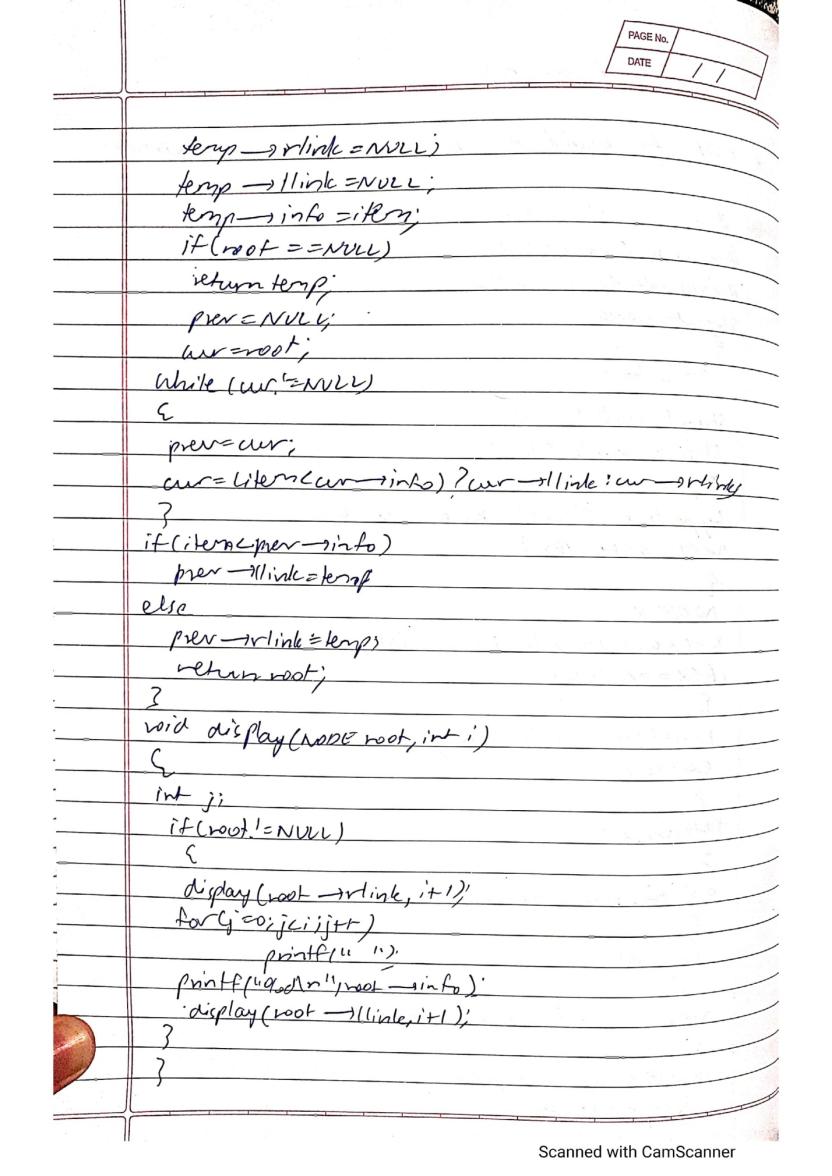


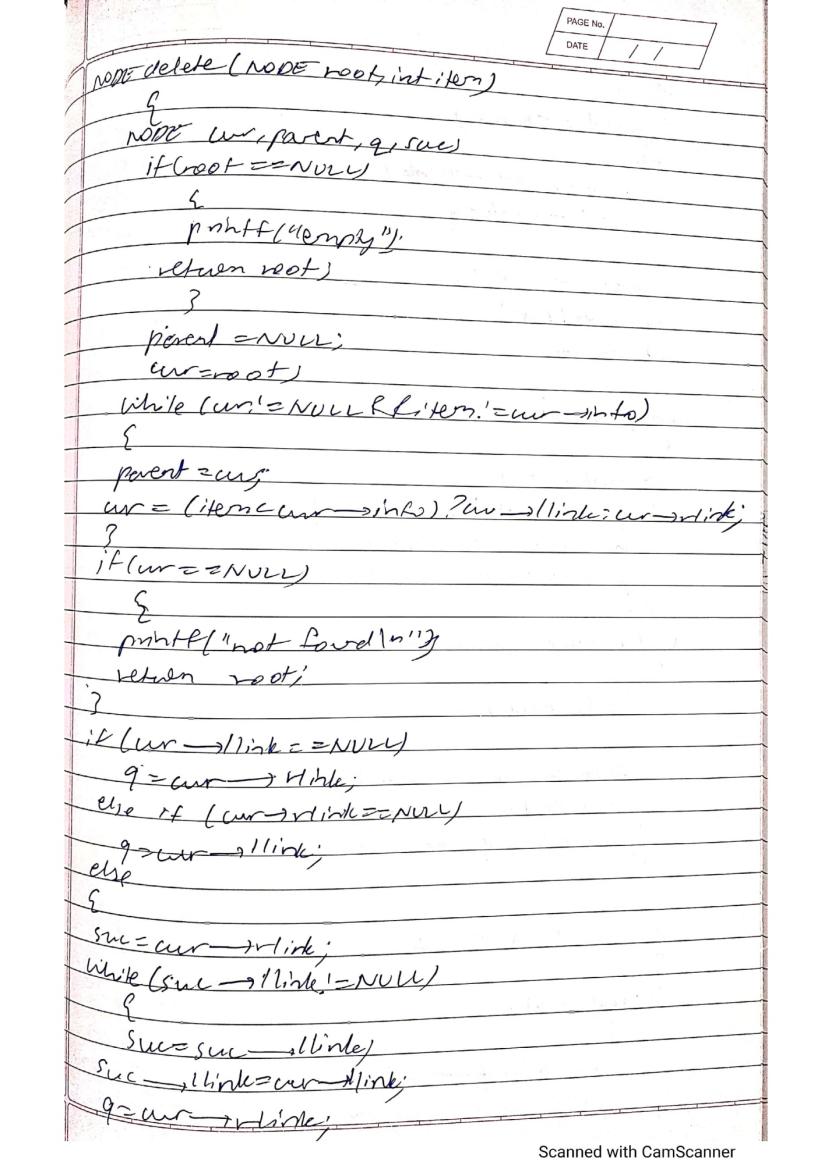
**10.**

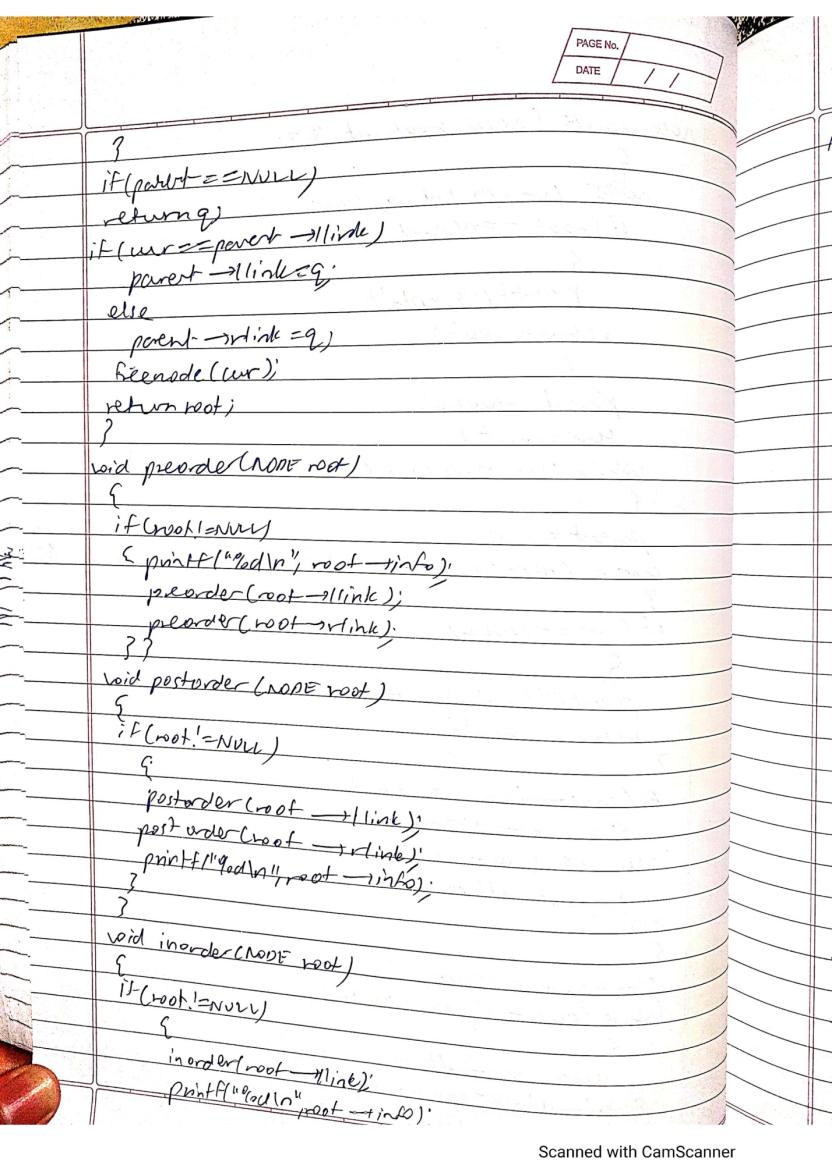
****

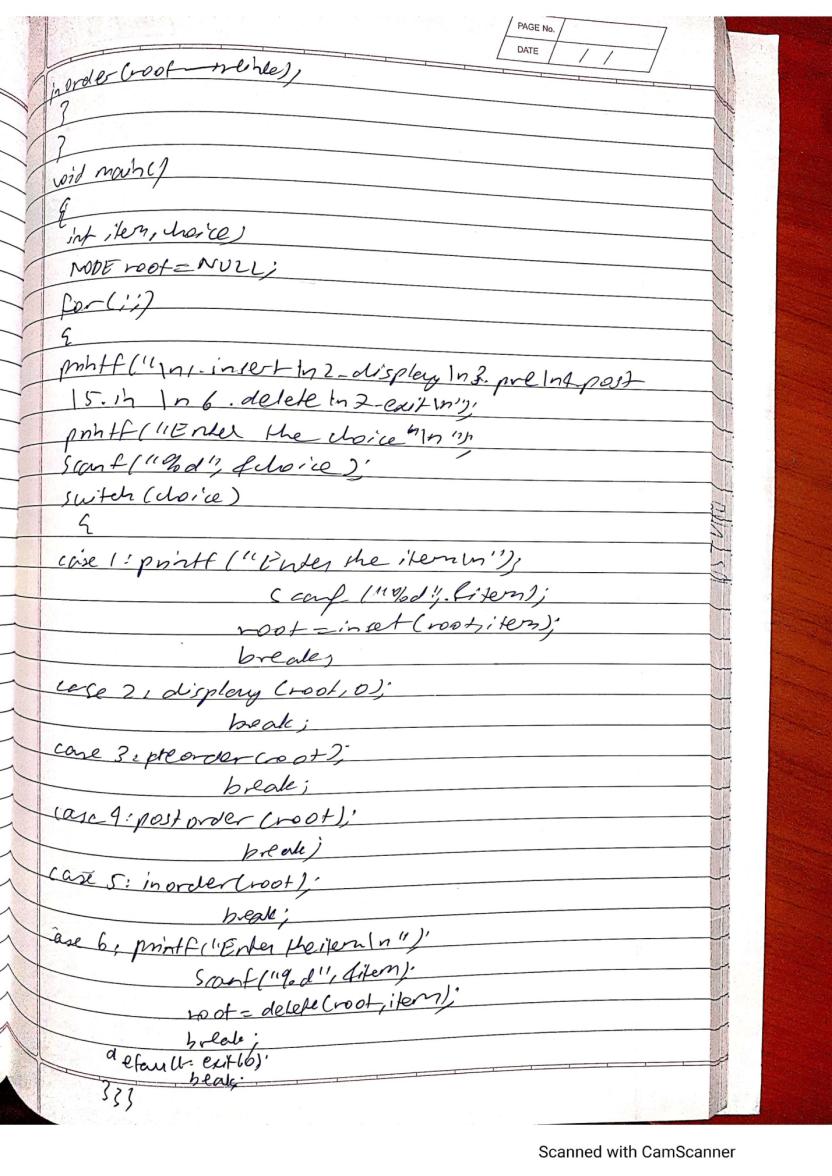
**C:\Users\admin\Documents\ds_lab10_ss2.PNG**





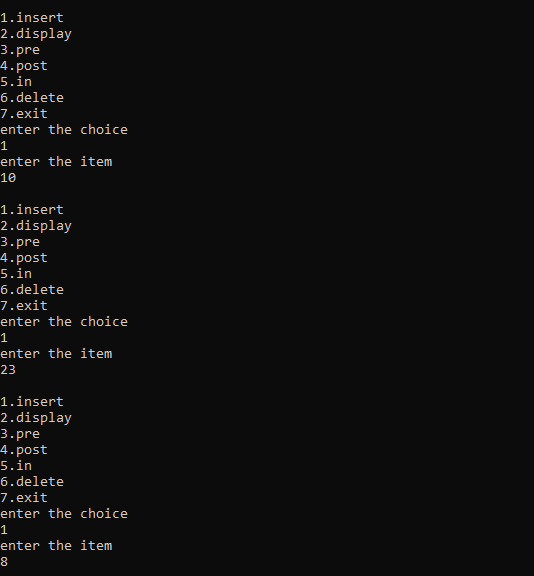


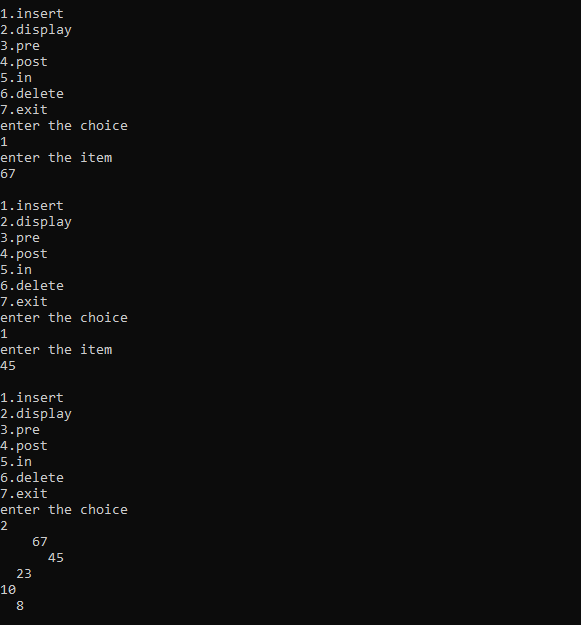




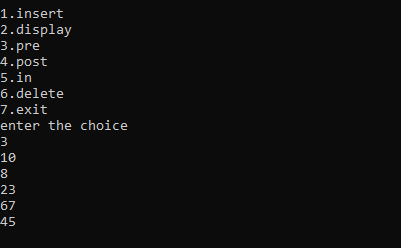
**OUTPUT:**

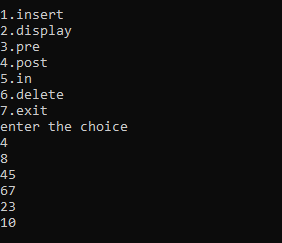
1. **BUILD A BST:**

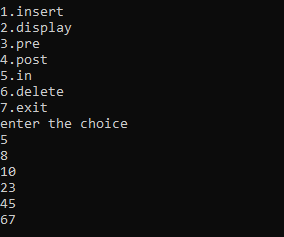




1. **PREORDER TRAVERSAL :**



1. **POSTORDER TRAVERSAL :**
2. **INORDER TRAVERSAL :**



**5.DELETE:**

