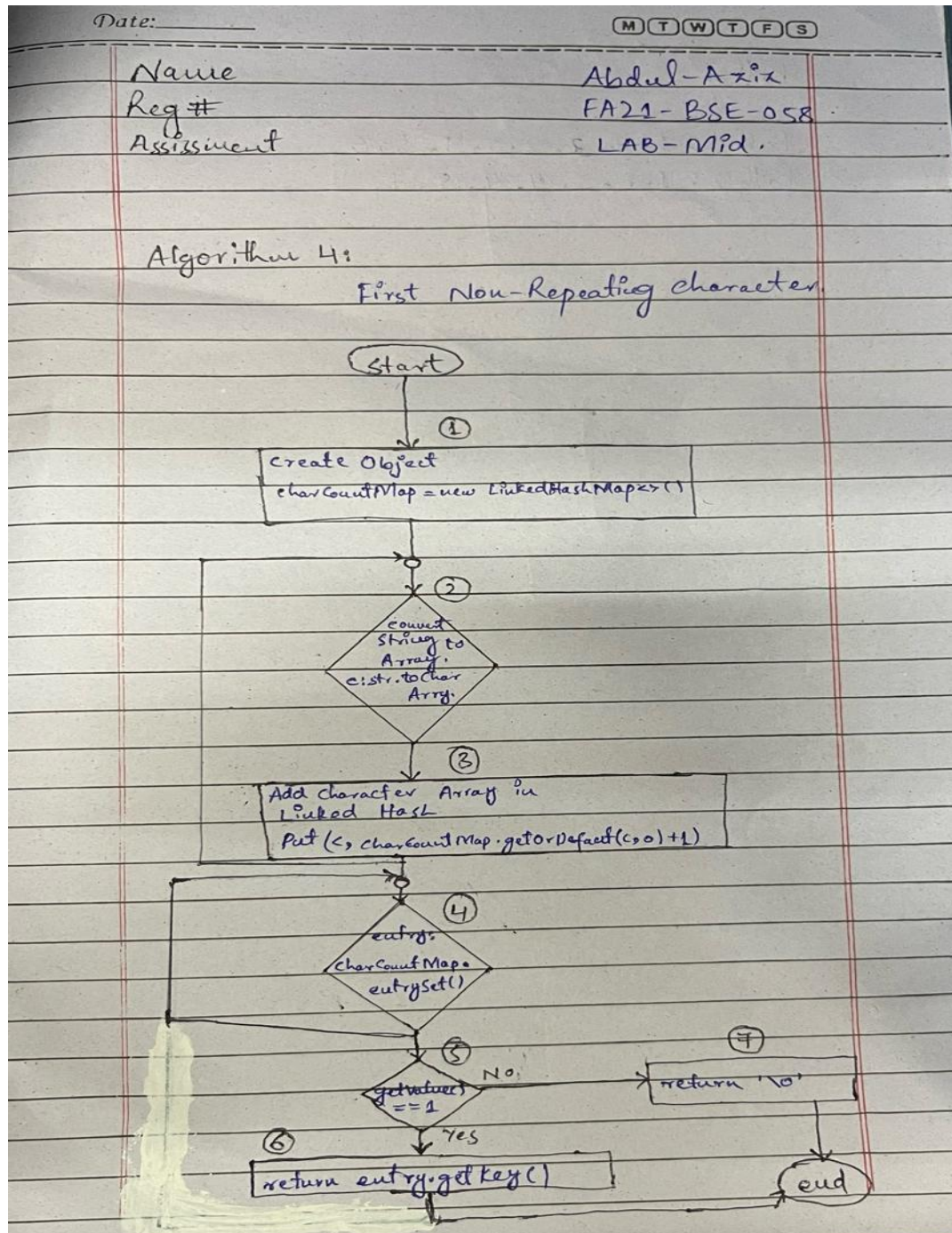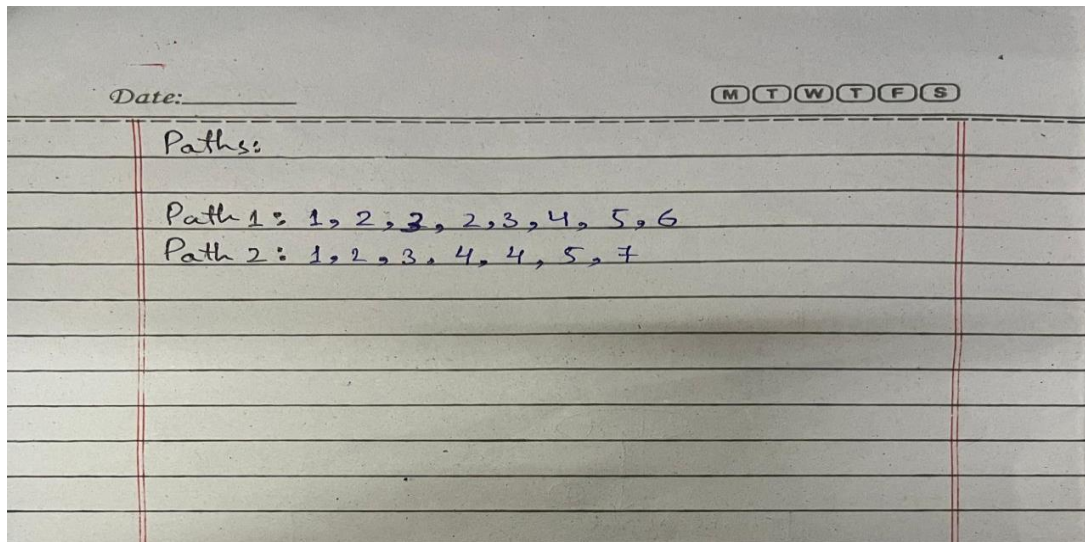# Mid Term Lab

Algorithm 04

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Algorithm 04:

Find the First Non-Repeating Character in a String: Uses a linked hash, map to count character occurrences and finds the first character with a count of one.

CFG:

Paths:


```
Date:_____                                    M T W T F S

Paths:

Path 1: 1, 2, 2, 2, 3, 4, 5, 6
Path 2: 1, 2, 3, 4, 4, 5, 7
```

Test Cases:

TC_ID	Description	Input Value	Expected Outcome	Actual Outcome	Status
TC_01	Enter a String that has one repeating character.	'swiss'	First non-repeating char is: 'w'	First non-repeating char is: 'w'	**Pass**
TC_02	Enter a string having no non-repeating characters.	'aabbcc'	First non-repeating char is: '\0'	First non-repeating char is: '\0'	**Pass**
TC_03	Enter an empty string.	' '	The String is empty.	First non-repeating char is: '\0'	**Fail**