



UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name: Competitive Coding-II

Subject Code: 20CSP-351

Submitted to:

Mr. Arvind Gautam

Submitted by:

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UID: 20BCS4995

Section: 20BCS_DM-704

Group: A

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Ex. No	List of Experiments	Conduct (MM: 12)	Viva (MM: 10)	Record (MM: 8)	Total (MM: 30)	Remarks/Signature
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1.2						
1.3						
2.1						
2.2						
2.3						
2.4						
3.1						
3.2						
3.3						

Experiment1.1

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Branch: CSE Section/Group: 20BCS-DM-704 (A)

Semester: 6th Date of Performance: 15th Feb 2023

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Aim - To demonstrate the concept of string matching algorithm.

Objective-

- The objective is to build problem solving capability and to learn the basic concepts of data structures.
- The implementation of rotate string which shows and brushes up the concept of strings and can be solved through various approaches.
- The implementation of repeated string matching in which the concept of npos was introduced.

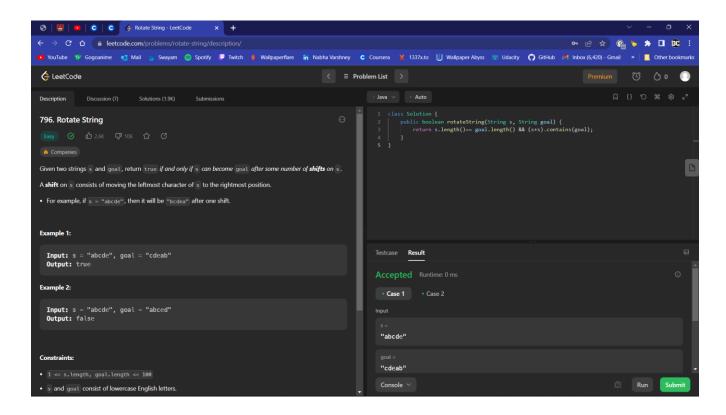
1) Rotate String

https://leetcode.com/problems/rotate-string/

Code -

```
class Solution {
   public boolean rotateString(String s, String goal) {
     return s.length()== goal.length() && (s+s).contains(goal);
   }
}
```

Output -



2) Repeated String https://leetcode.com/problems/repeated-string-match/Code -

```
class Solution {
   public int repeatedStringMatch(String A, String B) {
      String str=A;
      int repeat=B.length()/A.length();
      int count=1;
      for(int i=0;i<repeat+2;i++)
      {
        if(A.contains(B))
        return count;
      else{
            A+=str;count++;
        }
    }
   return -1;</pre>
```

}

Output -

