DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
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Experiment1.2

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Subject Name: Advance Programming Lab - 2
Subject Code: 21CSP-351

Q1 . Given two strings s and goal, return true if and only if s can become goal after some number of shifts on s.
A shift on s consists of moving the leftmost character of s to the rightmost position.

For example, if s = "abcde", then it will be "bcdea" after one shift.

CODE -

```
class Solution {
  public boolean rotateString(String s, String goal) {
    String w = s+s;
    if (s.length()!=goal.length())
    {
      return false;
    }
    if (w.indexOf(goal)==-1)
    {
      return false;
    }
    else
    {
      return true; }}}
```

OUTPUT -

Q2. Given two strings needle and haystack, return the index of the first occurrence of needle in haystack, or -1 if needle is not part of haystack.

```
class Solution {
  public boolean compare (String haystack , String needle , int index)
  {
    int n1 = haystack.length();
    int n2 = needle.length();
    for (int i = 0 ; i < n2 ; i++)
    {
      if (index>=n1) return false;
      if (haystack.charAt(index++)!=needle.charAt(i))
      return false;
    }
    return true;
  }
  public int strStr(String haystack, String needle) {
    for (int i= 0 ; i<haystack.length()-needle.length()+1;i++)
    {
      if (haystack.charAt(i)==needle.charAt(0))
```

```
        {
          if (compare(haystack,needle,i)==true)
          return i;
        }

      }
      return -1;
}
}
```

OUTPUT

Learning Outcomes -

1. Learnt about Strings and its Concepts.
2. Learnt about String matching.