DSA ASSIGNMENT-7(STRING)

Solution 1:

```
class Solution {
   public boolean isIsomorphic(String s, String t) {
      int map1[]=new int[200];
      int map2[]=new int[200];

      if(s.length()!=t.length())
           return false;

      for(int i=0;i<s.length();i++)
      {
        if(map1[s.charAt(i)]!=map2[t.charAt(i)])
           return false;

        map1[s.charAt(i)]=i+1;
        map2[t.charAt(i)]=i+1;
      }
      return true;
    }
}</pre>
```

Solution 2:

```
class Solution {
  public boolean isStrobogrammatic(String num) {
    Map<Character, Character> map = new HashMap<Character, Character>();
    map.put('6', '9');
    map.put('9', '6');
    map.put('0', '0');
    map.put('1', '1');
    map.put('8', '8');
    int l = 0, r = num.length() - 1;
    while (l <= r) {
        if (!map.containsKey(num.charAt(l))) return false;
        if (map.get(num.charAt(l)))!= num.charAt(r))
            return false;
        l++;
        r--:</pre>
```

```
return true;
}
```

Solution 3:

```
class Solution {
    public String addStrings(String num1, String num2) {
        StringBuilder sb = new StringBuilder();

    int i = num1.length() - 1, j = num2.length() - 1;
    int carry = 0;

    while (i >= 0 || j >= 0) {
        int sum = carry;

        if (i >= 0) sum += (num1.charAt(i--) - '0');
        if (j >= 0) sum += (num2.charAt(j--) - '0');

        sb.append(sum % 10);
        carry = sum / 10;
    }

    if (carry != 0) sb.append(carry);
    return sb.reverse().toString();
    }
}
```

Solution 4:

```
r=1;
    }
    return String.valueOf(a);
}

public String reverse(char s[],int l,int r){
    while(l<r){
        char temp=s[1];
        s[1]=s[r];
        s[r]=temp;
        l++;
        r--;
    }
    return String.valueOf(s);
}</pre>
```

Solution 5:

```
class Solution {
    char temp ;
    public char[] reverse(char []ar , int start , int end ){
        while(start<end){</pre>
            temp = ar[start];
            ar[start] = ar[end];
            ar[end] = temp ;
            start++ ; end-- ;
    public String reverseStr(String s, int k) {
        char ch[] = s.toCharArray();
        int len = ch.length ;
        int j = k-1;
        while(j< len )</pre>
            ch = reverse(ch , i , j );
            i = i + 2*k;
            j = j + 2*k;
        if(j>len-1){
            reverse(ch , i , len-1);
        return new String(ch);
    }
```

Solution 6:

```
class Solution {
   public boolean rotateString(String s, String goal) {
      if(s.length() != goal.length()) return false;
      if(s.equals(goal))
        return true;
      s = s+s;
      return s.contains(goal);
   }
}
```

Solution 7:

```
class Solution {
   public boolean backspaceCompare(String s, String t) {
        String str="";
        String p ="";
        String q="";
        p=isback(s,str);
        q=isback(t,str);
        if(p.equals(q))
        else{
   String isback(String st,String str)
        Stack<Character> stack=new Stack<>();
        for(int i=0;i<st.length();i++)</pre>
            char ch=st.charAt(i);
            if(Character.isLetterOrDigit(ch))
                stack.push(ch);
            else{
                if(!stack.isEmpty())
                    stack.pop();
```

```
}
while(!stack.empty())
{
    str=stack.peek()+str;
    stack.pop();
}
return str;
}
```

Solution 8: