## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	26-06-2020		Name:	Anvitha Poojary	
Sem & Sec	6A		USN:	4AL17CS008	
Online Test Summary					
Subject -					
Max Marks			Score	-	
Certification Course Summary					
Course	Cyber security Data structure in C				
Certificate Provider			Duration	ration	
Coding Challenges					
Problem Statement:					
Write a program to print all permutations of a given string.					
Status: completed					
Uploaded the report in Github			yes		
If yes Repository name			https://github.com/anvithapo99/Daily-Report		
Uploaded the report in slack			yes		

**Online test details:** 

## **Coding Challenges Details:**

1. Write a program to print all permutations of a given string.

## Description:

Here is the steps to implement string permutations:

Take out the first char and keep it constant. And permute rest of the characters. User recursive method call to permute rest of the string except first character. While making recursive call, we accumulate each character being constant along with recursive call response.

```
public class Permutation
{
        public static void main(String[] args)
        {
                 String str = "ABC";
                 int n = str.length();
                 Permutation permutation = new Permutation();
                 permutation.permute(str, 0, n-1);
        }
        private void permute(String str, int I, int r)
        {
                 if (I == r)
                         System.out.println(str);
                 else
                 {
                         for (int i = I; i <= r; i++)
                         {
                                  str = swap(str,l,i);
                                  permute(str, l+1, r);
```

```
str = swap(str,l,i);
}

public String swap(String a, int i, int j)
{
    char temp;
    char[] charArray = a.toCharArray();
    temp = charArray[i];
    charArray[i] = charArray[j];
    charArray[j] = temp;
    return String.valueOf(charArray);
}
```

## **Output:**

