

Assignment no 1

Problem statement:

Write a Java/C/C++/Python program that contains a string (char pointer) with a value 'Hello World'. The program should AND or and XOR each character in this string with 127 and display the result.

Roll no: 331

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Batch: B

Solution:

```
import java.util.*;
class operation{

    // AND operation
    void AND(String str1)
    {
        char ch[]=new char[str1.length()];

        //copying char
        for(int i=0;i<str1.length();i++)
        {
            ch[i]=str1.charAt(i);
        }

        System.out.println("\nResult of bitwise AND operation is : ");

        for(int i=0;i<str1.length();i++)
        {
            int ans=(int)ch[i] & 127;
            char result=(char)ans;

            System.out.print(result);
        }
    }

    //OR operation
    void XOR(String str1)
    {
        char ch[]=new char[str1.length()];

        //copying char
        for(int i=0;i<str1.length();i++)
        {
            ch[i]=str1.charAt(i);
        }

        System.out.println("\n\nResult of bitwise XOR operation is : ");

        for(int i=0;i<str1.length();i++)
        {
            int ans=(int)ch[i] ^ 127;
```

```

        char result=(char)ans;

        System.out.println(result);
    }
}

public class Assign_1 {
    public static void main(String args[]) throws Exception
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the String : ");
        String str= sc.nextLine();
        System.out.println("\nEntered string is : "+str);

        operation op=new operation();
        op.AND(str);
        op.XOR(str);
    }
}

```

Output:

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows the project structure with 'Assign_1.java' selected.
- Editor:** Displays the code for 'Assign_1.java', showing the main method and the 'operation' class.
- Console:** Shows the output of the program:


```

Enter the String : Hello
Entered string is : Hello
Result of bitwise AND operation is :
Hello
Result of bitwise XOR operation is :
7

```
- Taskbar:** Shows the system clock as 5:38 PM on 3/20/2023.