DAILY ONLINE ACTIVITIES SUMMARY

Date:	**13-06-2020**	**Name:**	**ASHIKA**
Sem & Sec	**6 A**	**USN:**	**4AL17CS016**

Online Test Summary

Subject	**PAP**		
Max. Marks	**30**	**Score**	**15**

Certification Course Summary

Course	**Python for Data science**		
Certificate Provider	**Cognitive class**	**Duration**	**5 hour**

Coding Challenges

Problem Statement:

1.Write a C Program to calculate Electricity Bill

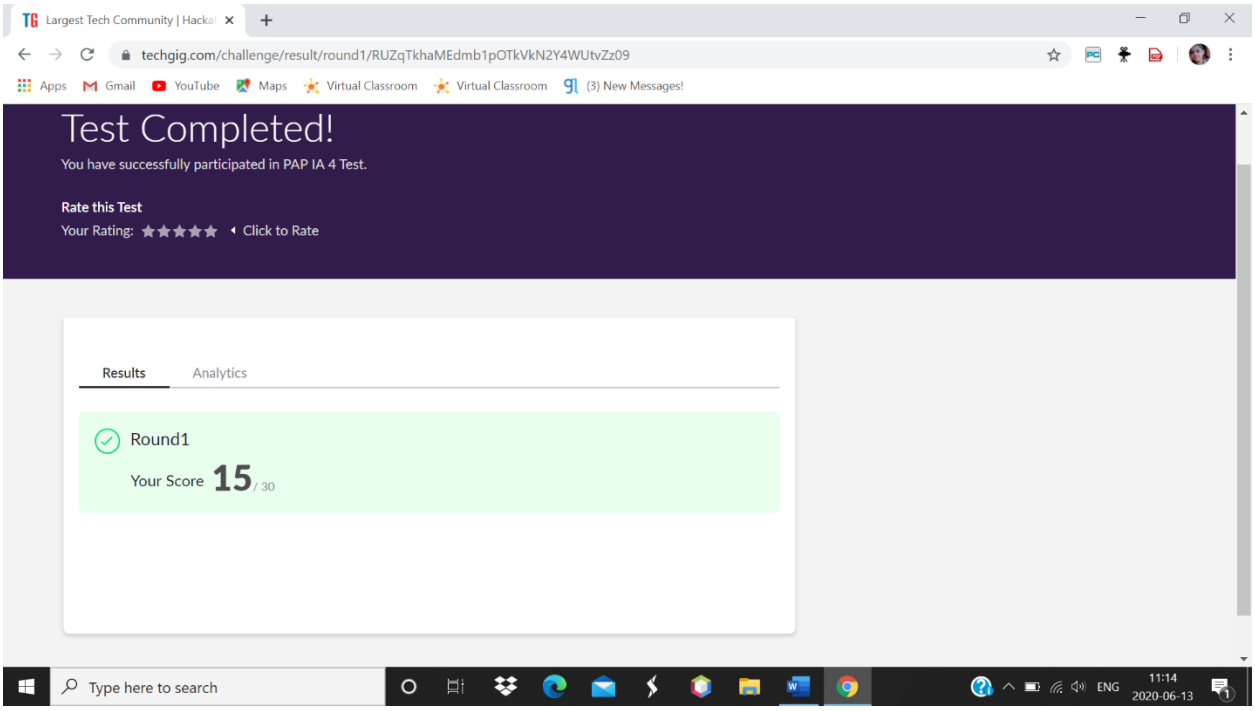
2. How to find the first non repeated character of a given String?

3.Python Program to print the pattern

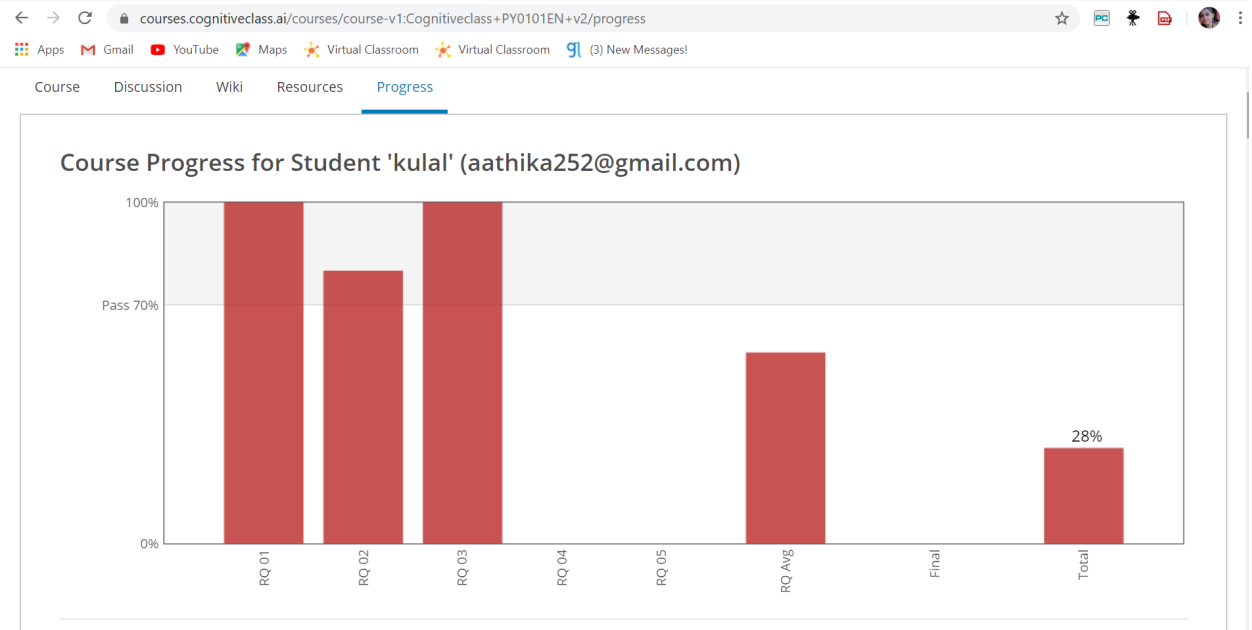
Status: done(executed)	
Uploaded the report in Github	**yes**
If yes Repository name	https://github.com/ASHIKA-05/DAILY-REPORT

Uploaded the report in slack	**yes**

SUBJECT: PAP



CERTIFICATION COURSE



ONLINE CODEING

1.Write a C Program to calculate Electricity Bill

Given an integer U denoting the amount of KWh units of electricity consumed, the task is to calculate the electricity bill with the help of the below charges:

- 1 to 100 units – Rs. 10/- Per Unit
- 100 to 200 units – Rs. 15/- Per Unit
- 200 to 300 units – Rs. 20/- Per Unit
- above 300 units – Rs. 25/- Per Unit

Examples:

Input: U = 250

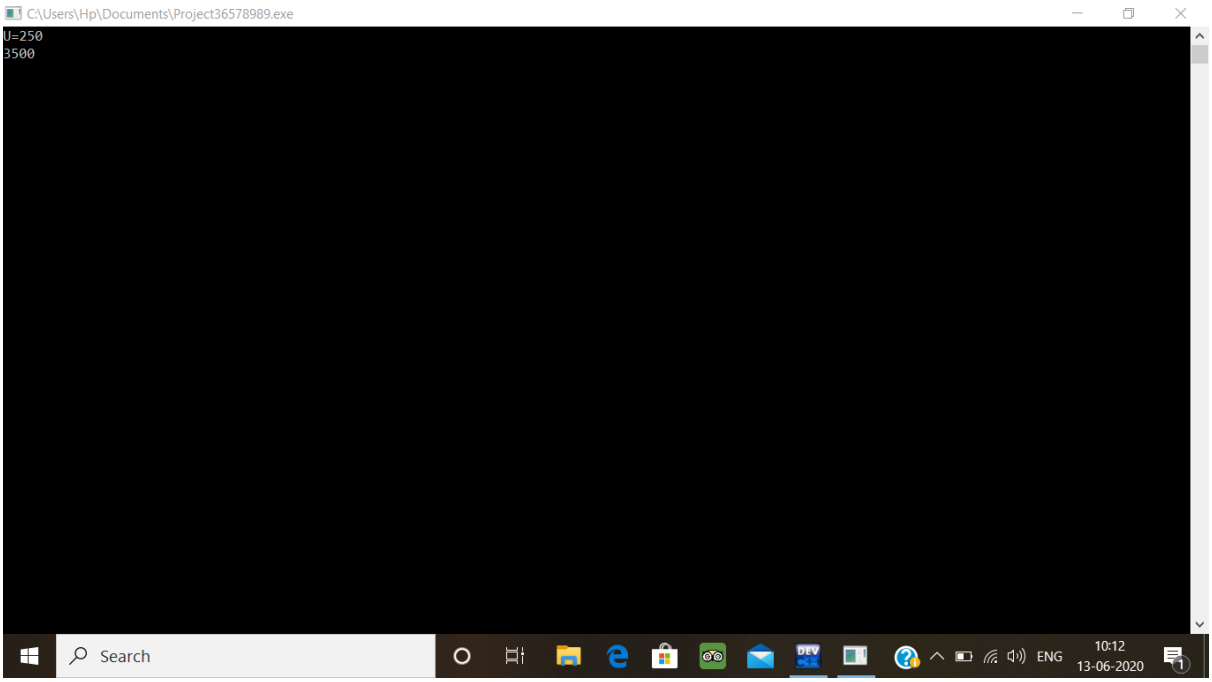
Output: 3500

Explanation:

Charge for the first 100 units – 10*100 = 1000*
*Charge for the 100 to 200 units – 15*100 = 1500
Charge for the 200 to 250 units – 20*50 = 1000
Total Electricity Bill = 1000 + 1500 + 1000 = 3500

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int unit;
            printf("U=");
            scanf("%d",&unit);
     if(unit<=100){
   printf("%d",unit*10);
}
else if(unit<=200){
   printf("%d",(100*5)+(unit-100)*15);
}
else if(unit<=300){
   printf("%d",(100*10)+(100*15)+(unit-200)*20);
}
else if(unit>300){
   printf("%d",(100*10)+(100*15)+(100*20)+(unit-300)*25);
}
else{
   printf("No value");
}
getch();
   return 0;
}
```

Output:

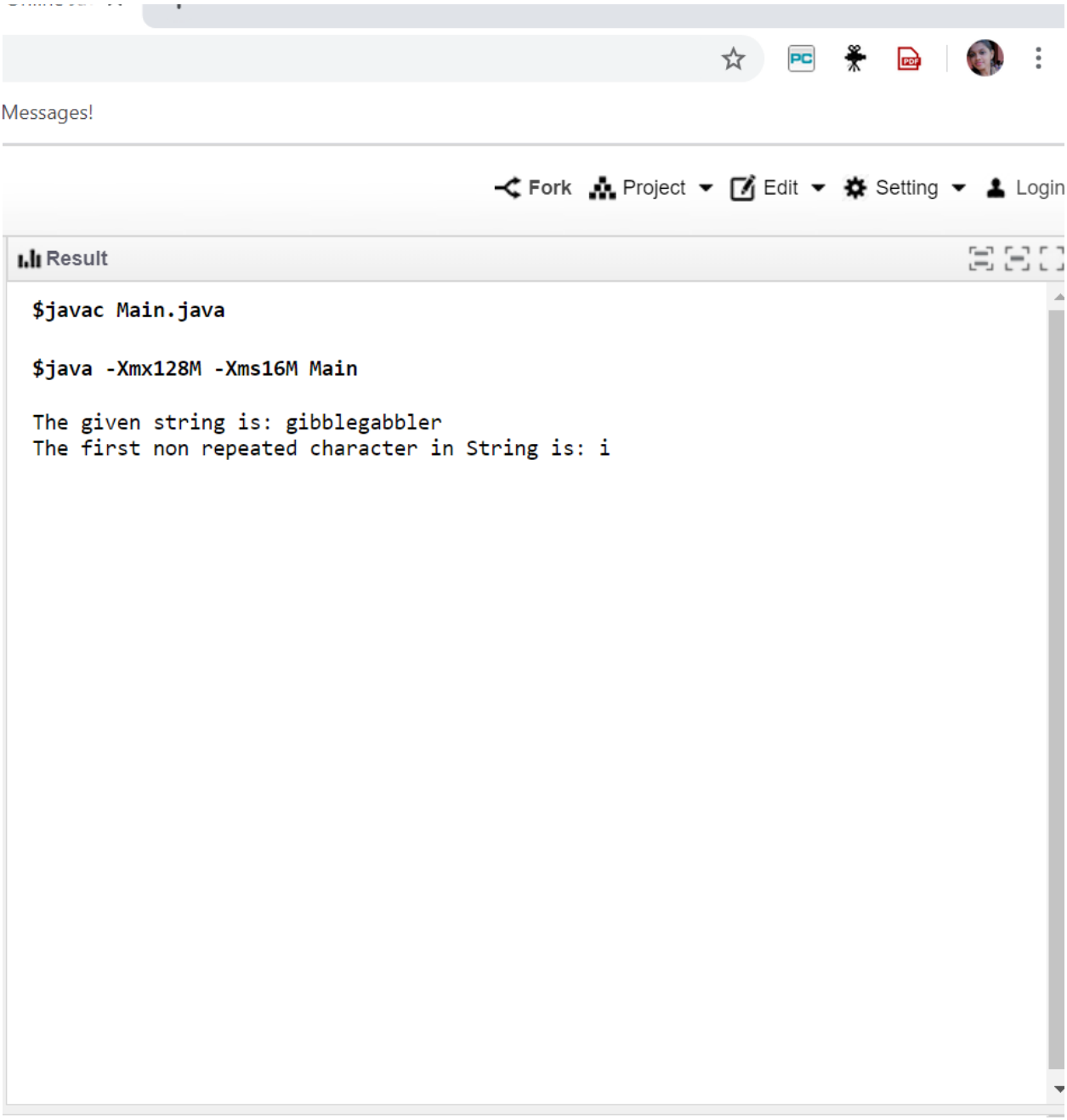


2. How to find the first non repeated character of a given String?

```
import java.util.*;

public class Main {

 public static void main(String[] args) {

  String str1 = "gibblegabbler";

  System.out.println("The given string is: " + str1);

  for (int i = 0; i < str1.length(); i++) {

   boolean unique = true;

   for (int j = 0; j < str1.length(); j++) {

    if (i != j && str1.charAt(i) == str1.charAt(j)) {

     unique = false;

     break;
```

```
    }
   }
   if (unique) {
    System.out.println("The first non repeated character in String is: " + str1.charAt(i));
    break;
   }
  }
 }
}
```

Output:



3.Python Program to print the pattern

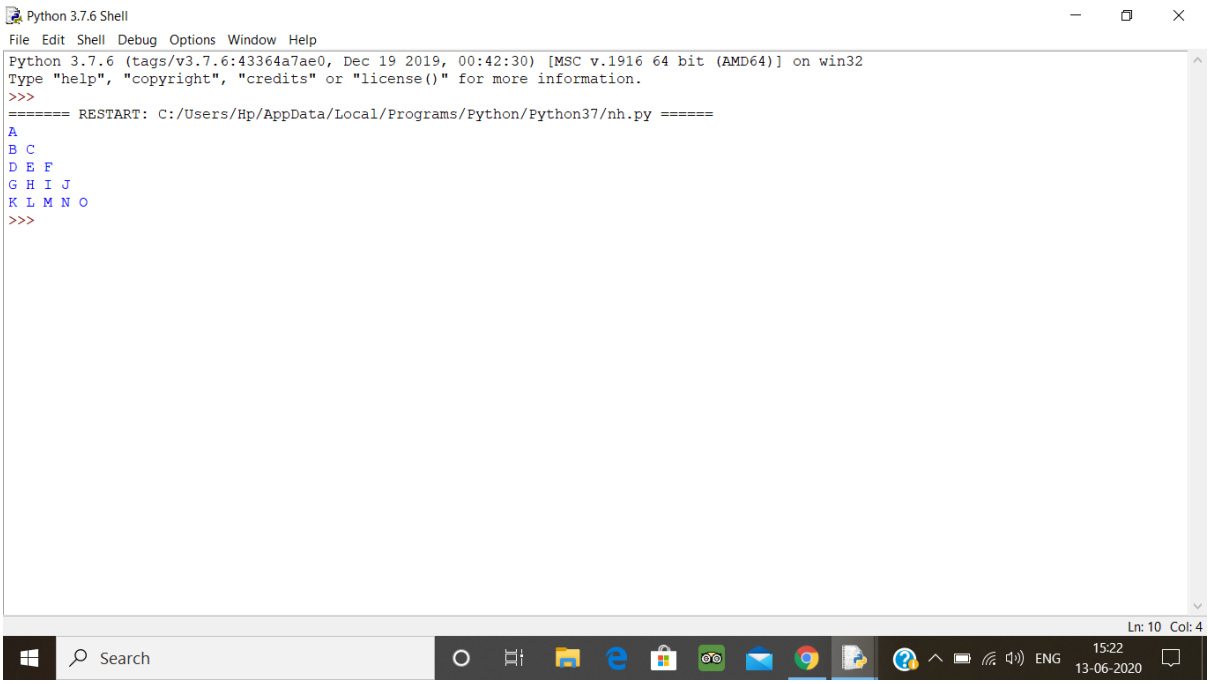
Description:
Input:
Number of rows is 5

Output Pattern is:
A

B C
D E F
G H I J
K L M N O

```
def  contalpha(n):
    num = 65
    for i in range(0, n):
        for j in range(0, i+1):
            ch = chr(num)
            print(ch, end=" ")
            num = num +1
        print("\r")
n = 5
contalpha(n)
```

output:



4. Write a Java Program to determine whether a given matrix is a sparse matrix

Description:
Algorithm
STEP 1: START
STEP 2: DEFINE rows, cols, size
STEP 3: SET count = 0
STEP 4: INITIALIZE first matrix a[][] ={{4,0,0}, {0,5,0}, {0,0,6}}
STEP 5: rows = a.length
STEP 6: cols = a[0].length
STEP 7: size = rows*cols
STEP 8: REPEAT STEP 9 to STEP 10 UNTIL i<rows
//for(i=0;i<rows; i++)
STEP 9: REPEAT STEP 10 UNTIL j<cols
//for(j=0;j<cols; j++)
STEP 10: if(a[i][j]==0) then count++
STEP 11: if(count>size/2) then PRINT "Yes" else PRINT "No"
STEP 12: END

```
public class Main

{

    public static void main(String[] args) {

        int rows, cols, size, count = 0;

        int a[][] = {

                    {4, 0, 0},

                    {0, 5, 0},

                    {0, 0, 6}

                };



          rows = a.length;

        cols = a[0].length;

        size = rows * cols;
```

```
        for(int i = 0; i < rows; i++){
            for(int j = 0; j < cols; j++){
                if(a[i][j] == 0)
                    count++;
                }
            }

        if(count > (size/2))
            System.out.println("Given matrix is a sparse matrix");
        else
            System.out.println("Given matrix is not a sparse matrix");
    }
}
```

Output: