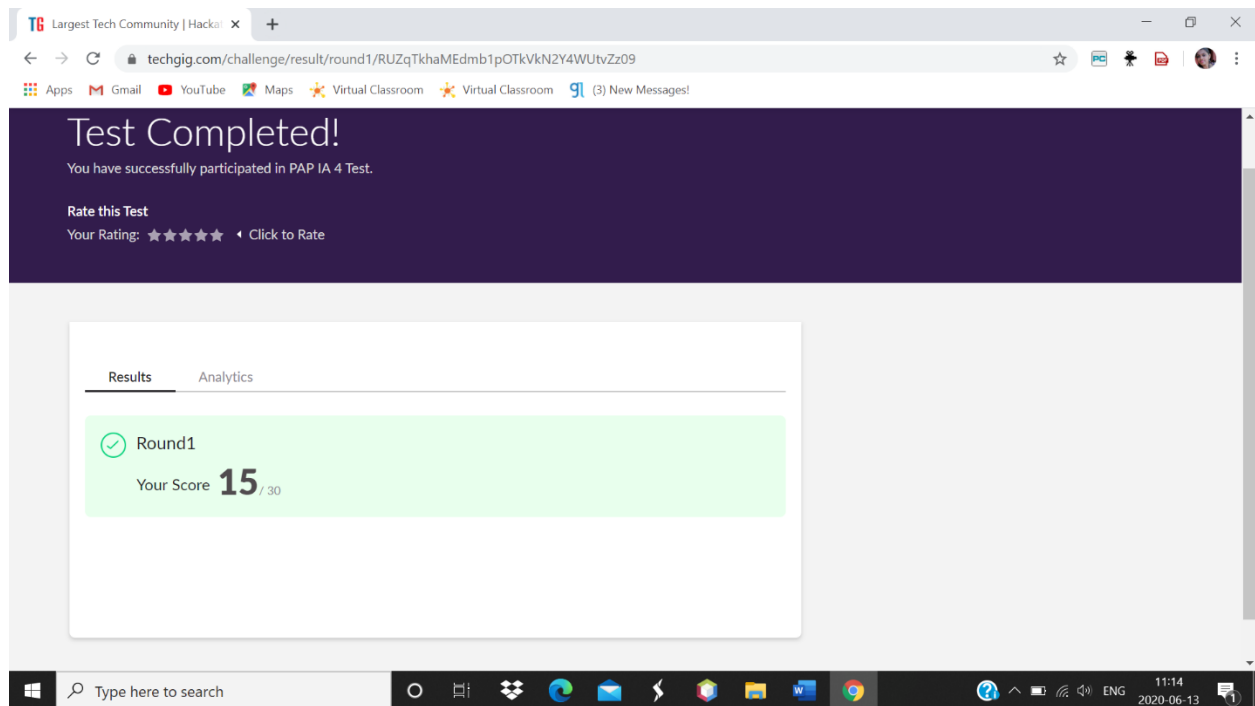


## DAILY ONLINE ACTIVITIES SUMMARY

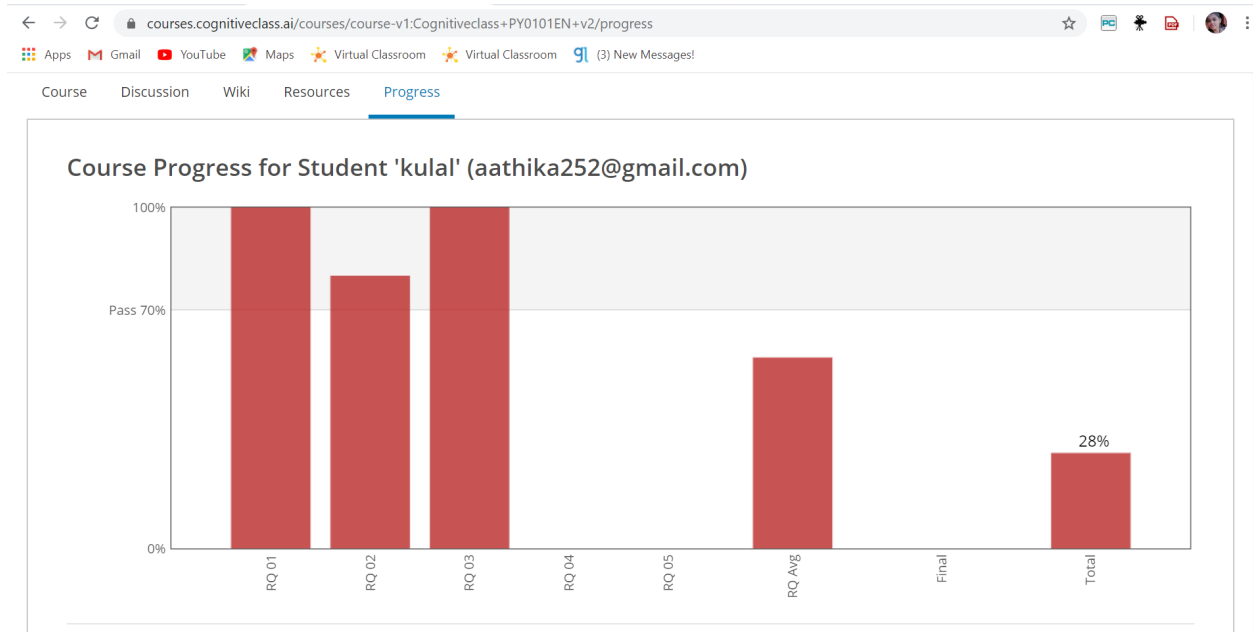
<b>Date:</b>	13-06-2020	<b>Name:</b>	ASHIKA
<b>Sem &amp; Sec</b>	6 A	<b>USN:</b>	4AL17CS016
<b>Online Test Summary</b>			
<b>Subject</b>	PAP		
<b>Max. Marks</b>	30	<b>Score</b>	15
<b>Certification Course Summary</b>			
<b>Course</b>	Python for Data science		
<b>Certificate Provider</b>	Cognitive class	<b>Duration</b>	5 hour
<b>Coding Challenges</b>			
<b>Problem Statement:</b>  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			
<b>Status: done(executed)</b>			
<b>Uploaded the report in Github</b>		yes	
<b>If yes Repository name</b>		<a href="https://github.com/ASHIKA-05/DAILY-REPORT">https://github.com/ASHIKA-05/DAILY-REPORT</a>	

Uploaded the report in slack	yes
------------------------------	-----

SUBJECT: PAP



CERTIFICATION COURSE



## ONLINE CODING

### 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 –  $10 \times 100 = 1000$

Charge for the 100 to 200 units –  $15 \times 100 = 1500$

Charge for the 200 to 250 units –  $20 \times 50 = 1000$

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");

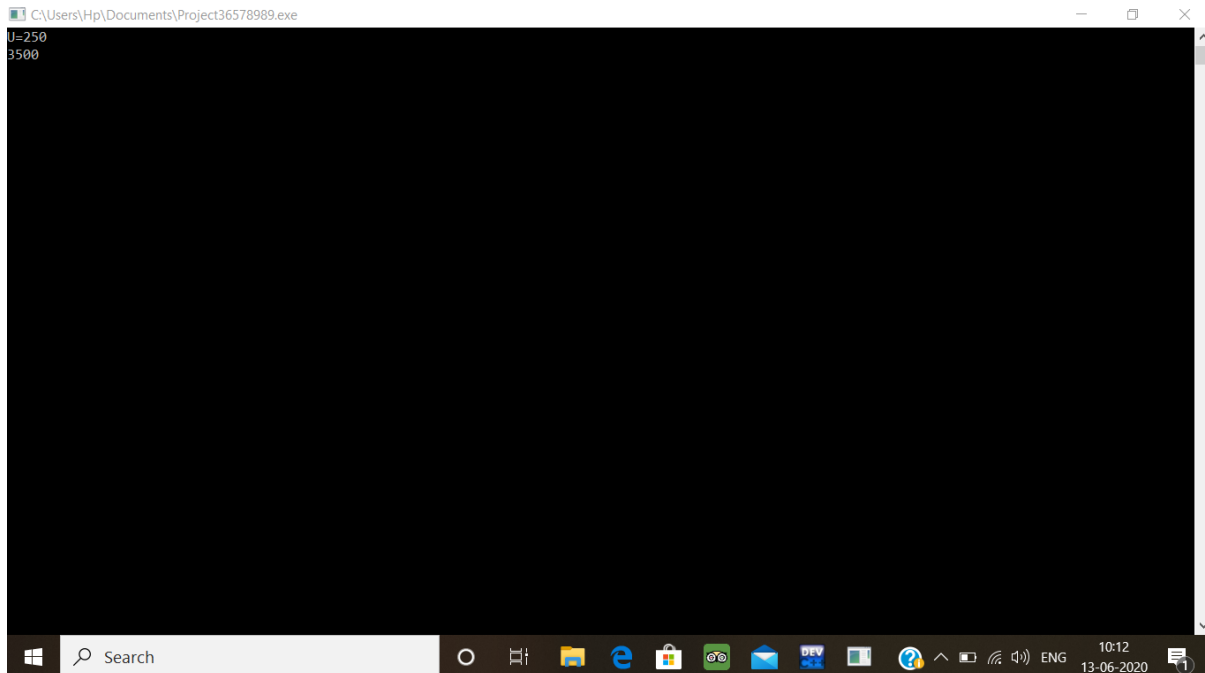
        }

        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;

                }

            }

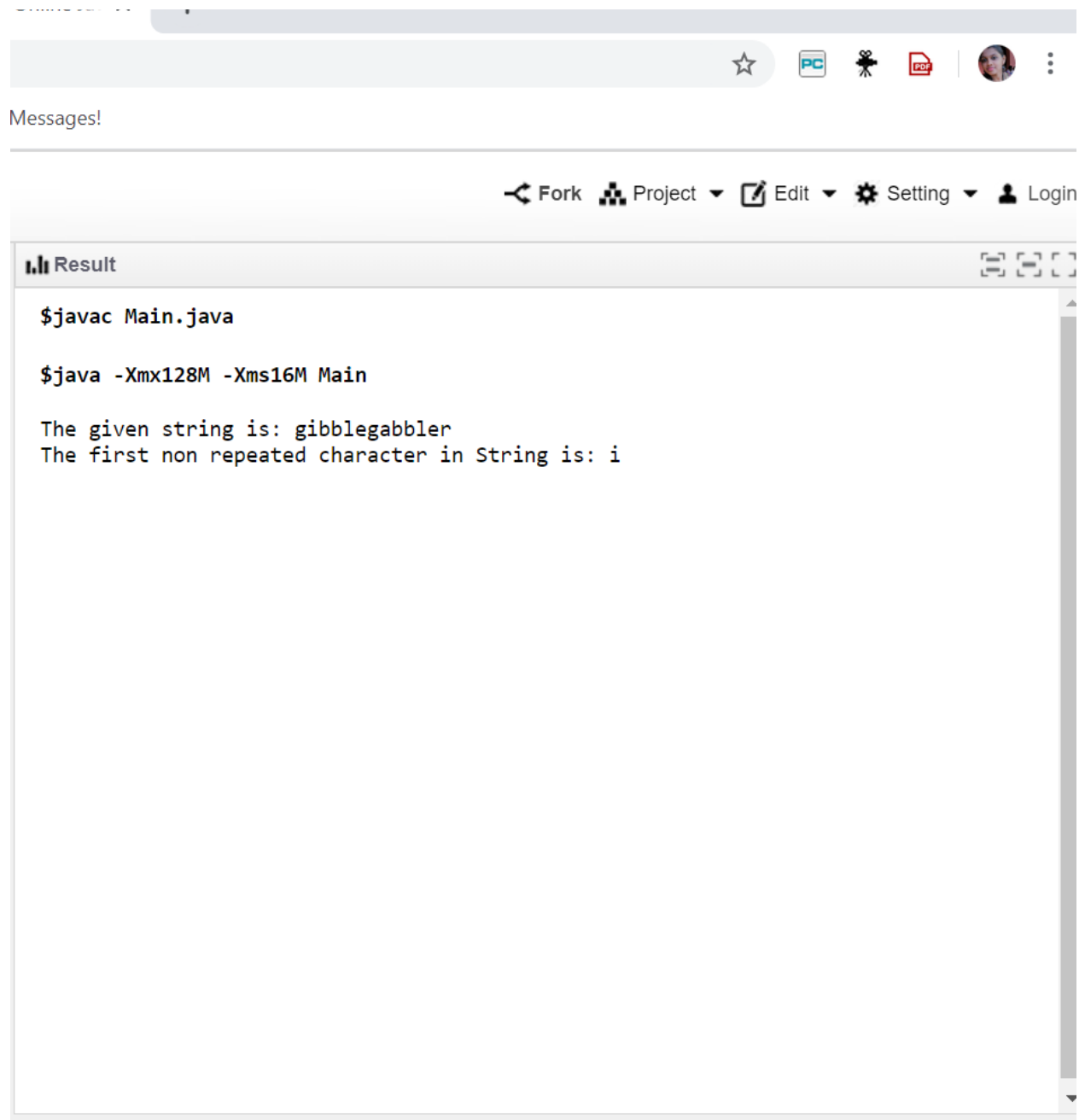
        }

    }

}
```

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

**Output:**



The screenshot shows a web-based IDE interface. At the top, there is a navigation bar with icons for a star, PC, video, PDF, and a user profile. Below this, a 'Messages!' section is visible. The main area contains a toolbar with 'Fork', 'Project', 'Edit', 'Setting', and 'Login' options. A 'Result' tab is active, displaying the output of a Java program. The output shows the compilation and execution of 'Main.java' with specific JVM flags, followed by the program's output for the string 'gibblegabbler'.

```
$javac Main.java

$java -Xmx128M -Xms16M Main

The given string is: gibblegabbler
The first non repeated character in String is: i
```

### 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=" ")
```

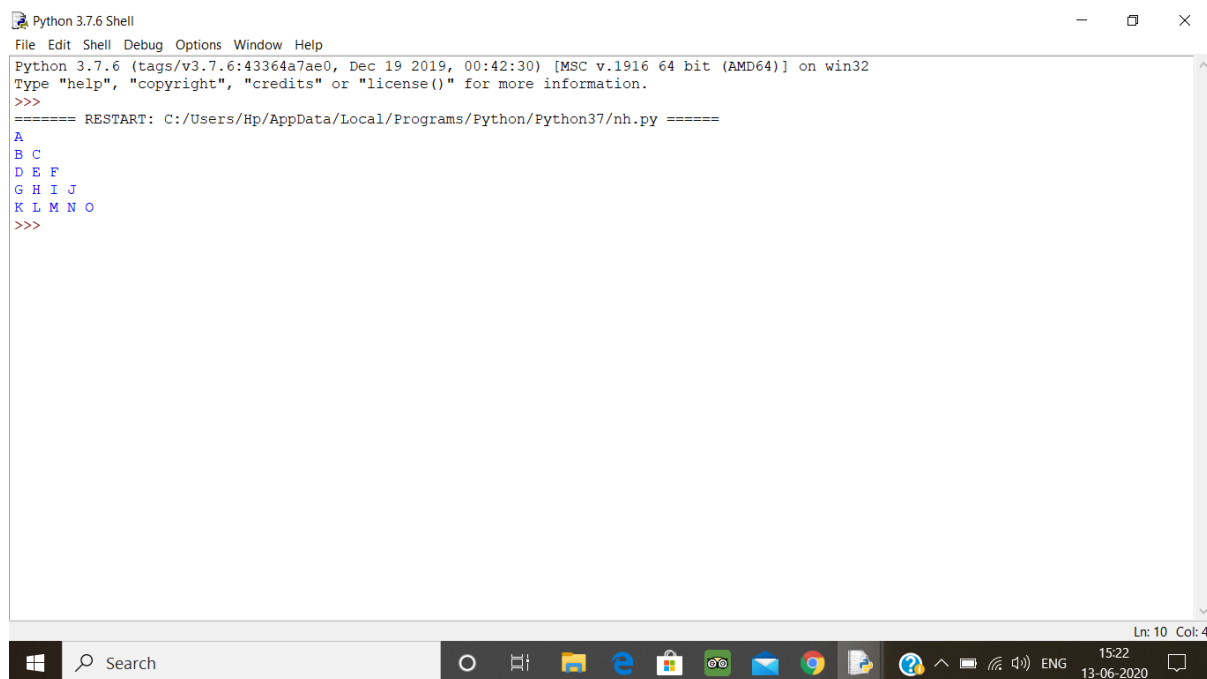
```
            num = num +1
```

```
        print("\r")
```

```
n = 5
```

```
contalpha(n)
```

### **output:**



```
Python 3.7.6 Shell
File Edit Shell Debug Options Window Help
Python 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 00:42:30) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Hp/AppData/Local/Programs/Python/Python37/nh.py =====
A
B C
D E F
G H I J
K L M N O
>>>
```



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:

The screenshot shows a web browser at [tutorialspoint.com/compile\\_java\\_online.php](http://tutorialspoint.com/compile_java_online.php). The page title is "Compile and Execute Java Online (JDK 1.8.0)". The code editor on the left contains the following Java code:

```

1 public class Main
2 {
3     public static void main(String[] args) {
4         int rows, cols, size, count = 0;
5         int a[][] = {
6             {4, 0, 0},
7             {0, 5, 0},
8             {0, 0, 6}
9         };
10
11         rows = a.length;
12         cols = a[0].length;
13         size = rows * cols;
14         for(int i = 0; i < rows; i++){
15             for(int j = 0; j < cols; j++){
16                 if(a[i][j] == 0)
17                     count++;
18             }
19         }
20
21         if(count > (size/2))
22             System.out.println("Given matrix is a sparse matrix");
23         else
24             System.out.println("Given matrix is not a sparse matrix");
25     }
26 }
27
28

```

The output window on the right shows the following commands and results:

```

$javac Main.java

$java -Xmx128M -Xms16M Main

Given matrix is a sparse matrix

```

