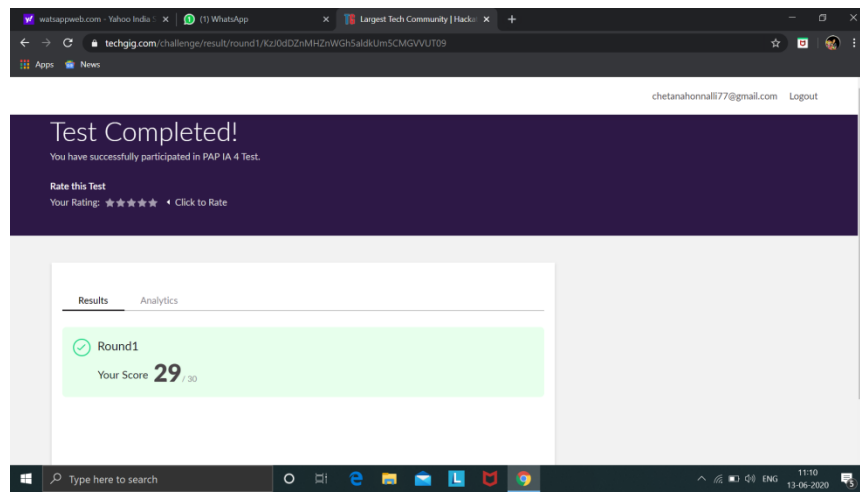


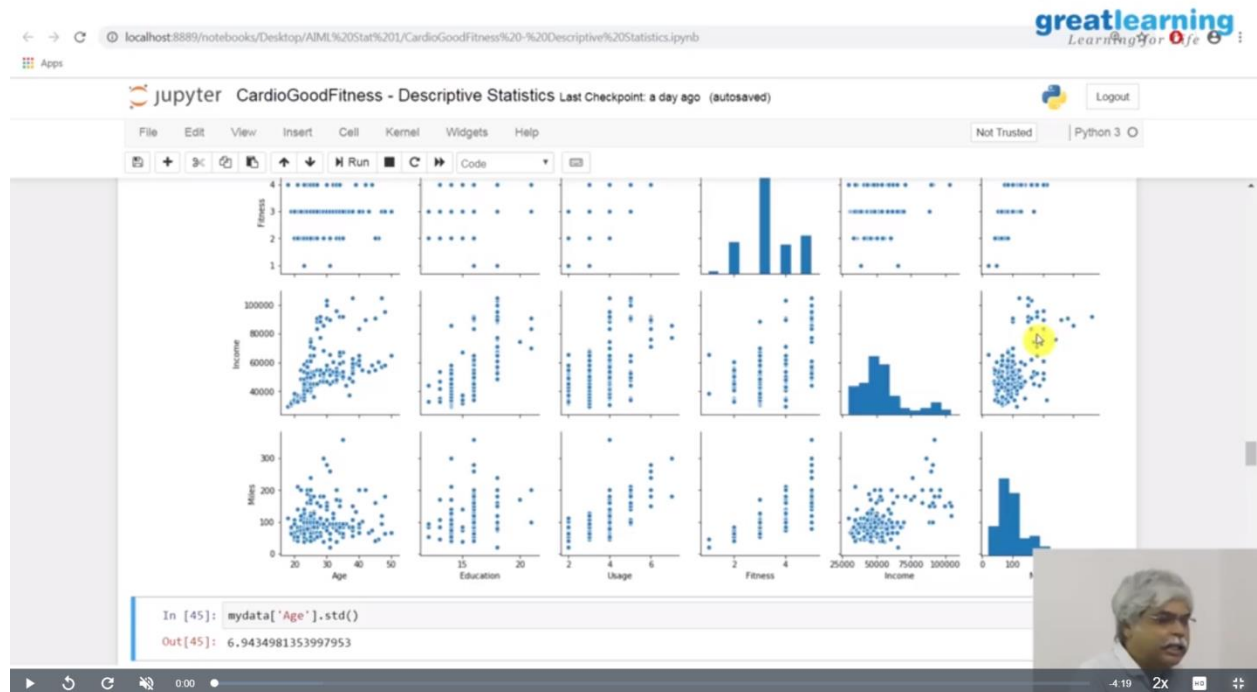
DAILY ONLINE ACTIVITIES SUMMARY

| | | | |
|--|--------------------------|---|------------|
| Date: | 13-06-2020 | Name: | Chetana H |
| Sem & Sec | VI A | USN: | 4AL17CS021 |
| Online Test Summary | | | |
| Subject | PAP TEST | | |
| Max. Marks | 30 | Score | 29 |
| Certification Course Summary | | | |
| Course | DATA SCIENCE WITH PYTHON | | |
| Certificate Provider | GreatLearning | Duration | 10.5hr |
| Coding Challenges | | | |
| Problem Statement: 1. Using methods charAt() & length() of String class, write a program to print the frequency of each character in a string. 2. Write down a java program to print even and odd numbers series respectively from two threads: t1 and t2 synchronizing on a shared object Let t1 print message "ping —>" and t2 print message ",—pong". | | | |
| Status: Completed, executed | | | |
| Uploaded the report in Github | | Yes | |
| If yes Repository name | | https://github.com/chetana-H/certification-and-online-coding | |
| Uploaded the report in slack | | Yes | |



Online Certification Details

Modules completed: Types of Data



The screenshot shows a web browser window with the Great Learning website. The browser's address bar displays 'olympus.greatlearning.in/courses/11265'. The website's header includes the Great Learning logo and navigation links for Home, Live Sessions, and Certificates. A 'My Courses' button is visible in the top right corner. A user profile dropdown menu is open, showing the user's name 'chetana H', email 'chetanahonnalli77@gmail.com', and options for Certificates, Settings, and Logout. The main content area lists several courses with their durations and completion status:

| Course Name | Duration | Status |
|--|----------|-------------|
| Measures of Dispersion | | |
| Understanding Distributions & Histograms | | |
| Box Plots | | |
| Summarizing Data | 4m | Completed |
| Pair Plots | 9m | Completed |
| Types of Data | 4m | Completed |
| Univariate statistical plots and usage | 50m | In Progress |
| Bi variate statistics | 52m | Not Started |
| Multivariate statistics(Linear Regression) | 48m | Not Started |

Coding Challenge Details

1. **Prog1:** Python Program to print the pattern.

Description:

Input: Number of rows is 5

Output Pattern is:

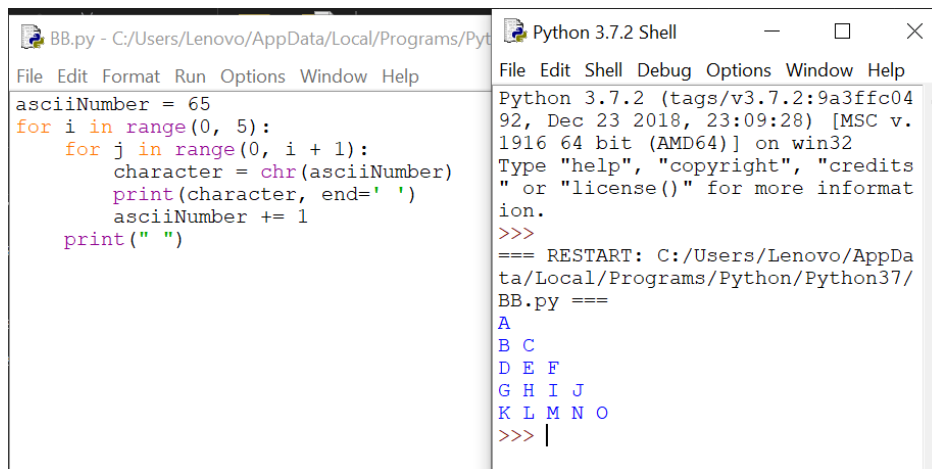
A

B C

D E F

G H I J

K L M N O

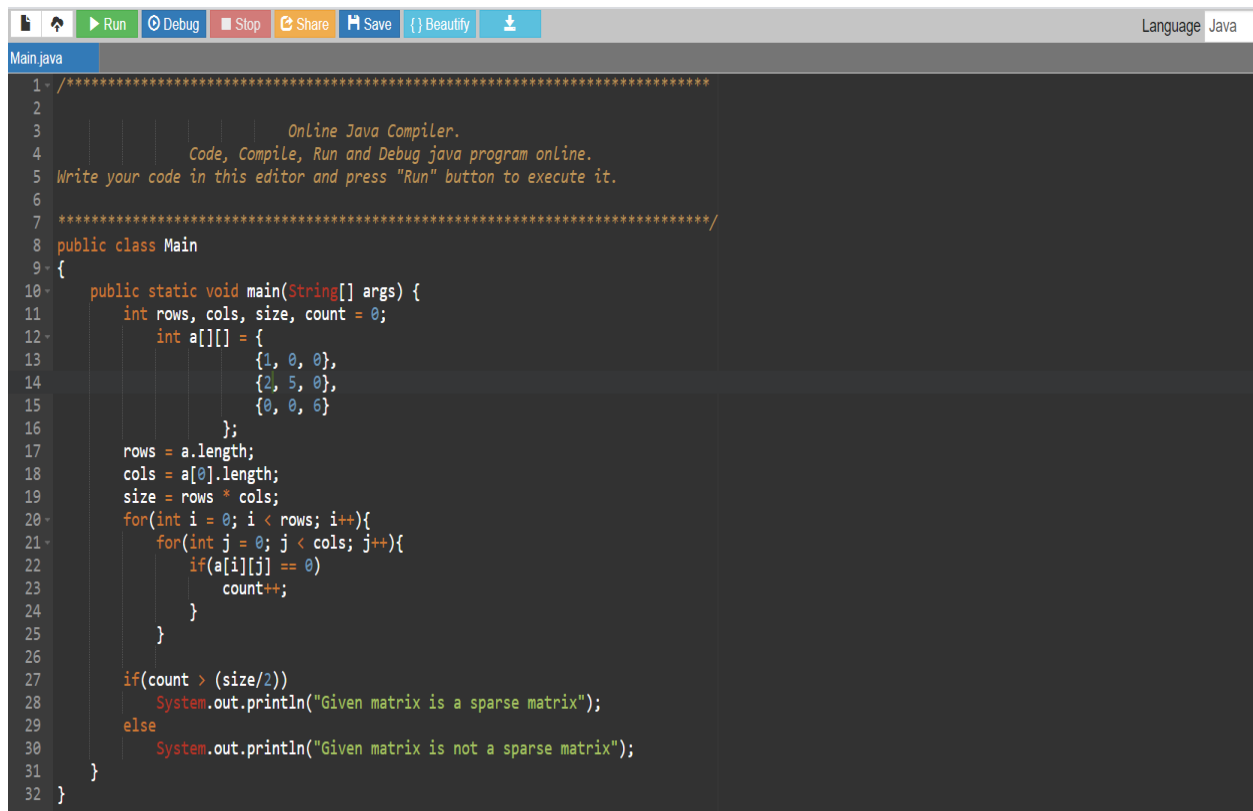


```
BB.py - C:/Users/Lenovo/AppData/Local/Programs/Python/Python37/Python37/BB.py
File Edit Format Run Options Window Help

asciiNumber = 65
for i in range(0, 5):
    for j in range(0, i + 1):
        character = chr(asciiNumber)
        print(character, end=' ')
        asciiNumber += 1
    print("\n")

Python 3.7.2 Shell
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:/Users/Lenovo/AppData/Local/Programs/Python/Python37/BB.py ===
A
B C
D E F
G H I J
K L M N O
>>> |
```

2. **Prog 2:**Write a Java Program to determine whether a given matrix is a sparse matrix.



```
Main.java
1- /*****
2-
3- Online Java Compiler.
4- Code, Compile, Run and Debug java program online.
5- Write your code in this editor and press "Run" button to execute it.
6-
7- *****/
8- public class Main
9- {
10-     public static void main(String[] args) {
11-         int rows, cols, size, count = 0;
12-         int a[][] = {
13-             {1, 0, 0},
14-             {2, 5, 0},
15-             {0, 0, 6}
16-         };
17-         rows = a.length;
18-         cols = a[0].length;
19-         size = rows * cols;
20-         for(int i = 0; i < rows; i++){
21-             for(int j = 0; j < cols; j++){
22-                 if(a[i][j] == 0)
23-                     count++;
24-             }
25-         }
26-         if(count > (size/2))
27-             System.out.println("Given matrix is a sparse matrix");
28-         else
29-             System.out.println("Given matrix is not a sparse matrix");
30-     }
31- }
32- }
```

```
input
Given matrix is a sparse matrix

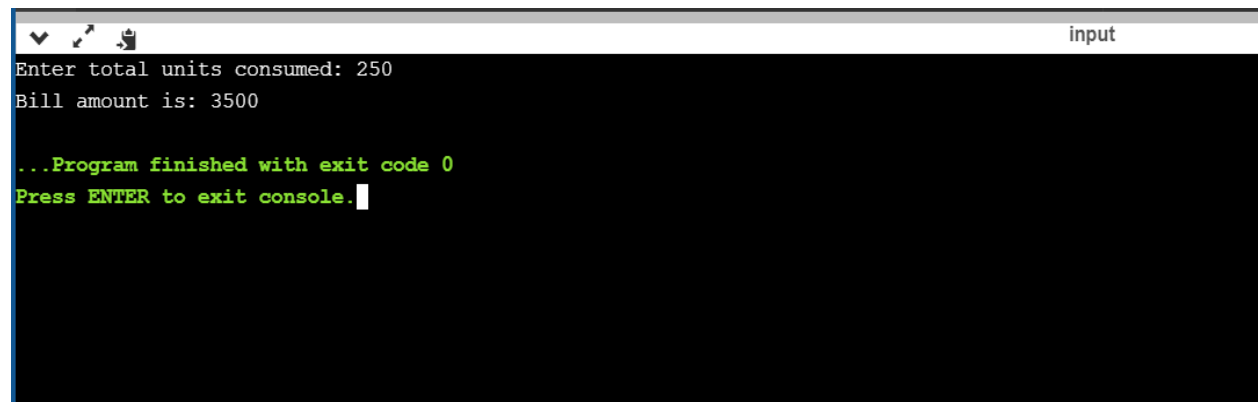
...Program finished with exit code 0
Press ENTER to exit console.
```

Prog 3: Write a C program to calculate Electricity Bill.

Description: 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

```
main.c
1  /*****
2
3  Welcome to GDB Online.
4  GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5  C#, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite, Prolog.
6  Code, Compile, Run and Debug online from anywhere in world.
7
8  *****/
9  #include <stdio.h>
10 #include <stdlib.h>
11 int main()
12 {
13     int unit;
14     printf("Enter total units consumed: ");
15     scanf("%d",&unit);
16     if(unit<=100)
17     {
18         printf("Bill amount is: ");
19         printf("%d",unit*10);
20     }
21     else if(unit<=200)
22     {
23         printf("Bill amount is: ");
24         printf("%d",(100*10)+(unit-100)*15);
25     }
26     else if(unit<=300)
27     {
28         printf("Bill amount is: ");
29         printf("%d",(100*10)+(100*15)+(unit-200)*20);
30     }
31     else
32     {
33         printf("Bill amount is: ");
34         printf("%d",(100*10)+(100*15)+(100*20)+(unit-300)*25);
35     }
36     return 0;
37 }
```



```
Enter total units consumed: 250
Bill amount is: 3500

...Program finished with exit code 0
Press ENTER to exit console.
```