



## **Basic Programming Round**

You have to solve any one of the following: Max Time -1.5 hrs

## Task 1: BMI Calculator

In this task you have to develop a console application in any programming language of your interest. You have to develop a [BMI](#) calculator console application to help the class teacher know the health of his students . This application will take list of student roll number, student names, student heights, student weight as input and must be able to perform following operations:

- Application should allow the user to get BMI( $kg/m^2$ ) for each student.
- Application should allow the user to get all students having BMI ( $kg/m^2$ ) under overweight category ( $25.0 \leq BMI \leq 29.9$ )
- Application should allow the user to get all healthy students (normal weight category)( $18.5 \leq BMI \leq 24.9$ )
- Application should allow the user to update height and weight of students.

### Scoring:

- Completion percentage
- Code Quality

### Bonus:

- Error handling
- Use best possible data structure

## Task 2 : Data Hider

In this task you have to develop a Data Hider console tool in any programming language of your interest. This tool will help the user to store details of employees in encrypted code and get details of employees from encrypted code. An employee has these attributes :

- Name: Only capital english letters allowed
- Gender: MALE, FEMALE and OTHER
- ID: Only capital english letters allowed
- Designation: Only capital english letters allowed

Encrypted code should look like : N/77657883/G/0/I/7766777765/D/676979  
for the employee details: Name: MANAS, Gender: MALE, ID: MBMMA,  
Designation: CEO

This tool must be able to perform following operations:

- Tool must allow the user to enter details of employees and this tool will print encrypted code on the console.
- Tool must allow the user to get employee details from encrypted code and print the output in the console.

### Resources/Constraints:

- You can't use any third party packages.

### Scoring:

- Completion percentage
- Code Quality
- Error handling

## Steps for uploading your code:

- Create a new folder and copy all your files inside this folder.
- Compress this folder (zip it).
- [Upload your code here](#).