

RAJSHAHI UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Course no: CSE 2100

Course Title: Software Development Project |

Project Report

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Project Report

Project Title : Student Health and Fitness Test

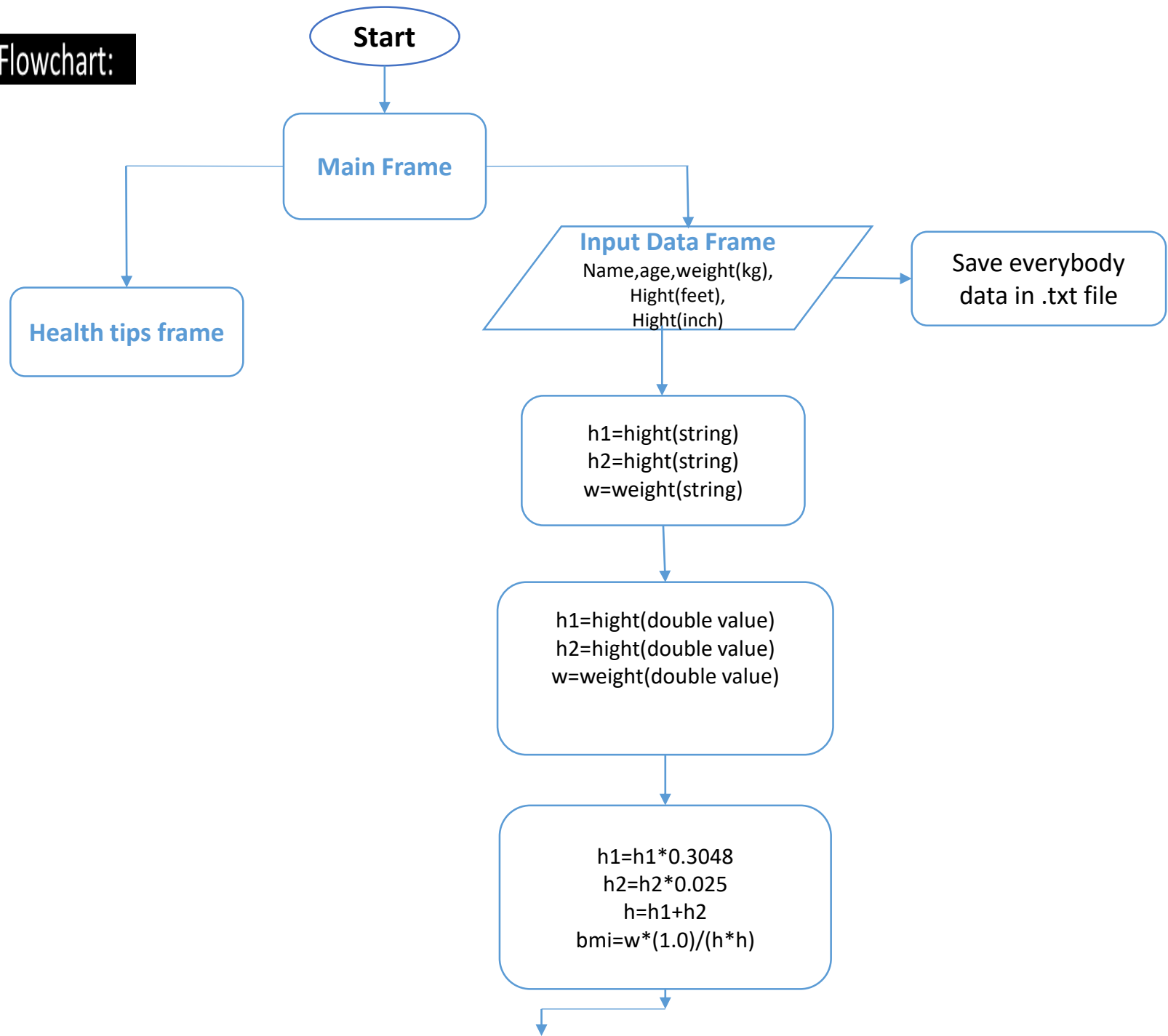
Language : Java(Swing)

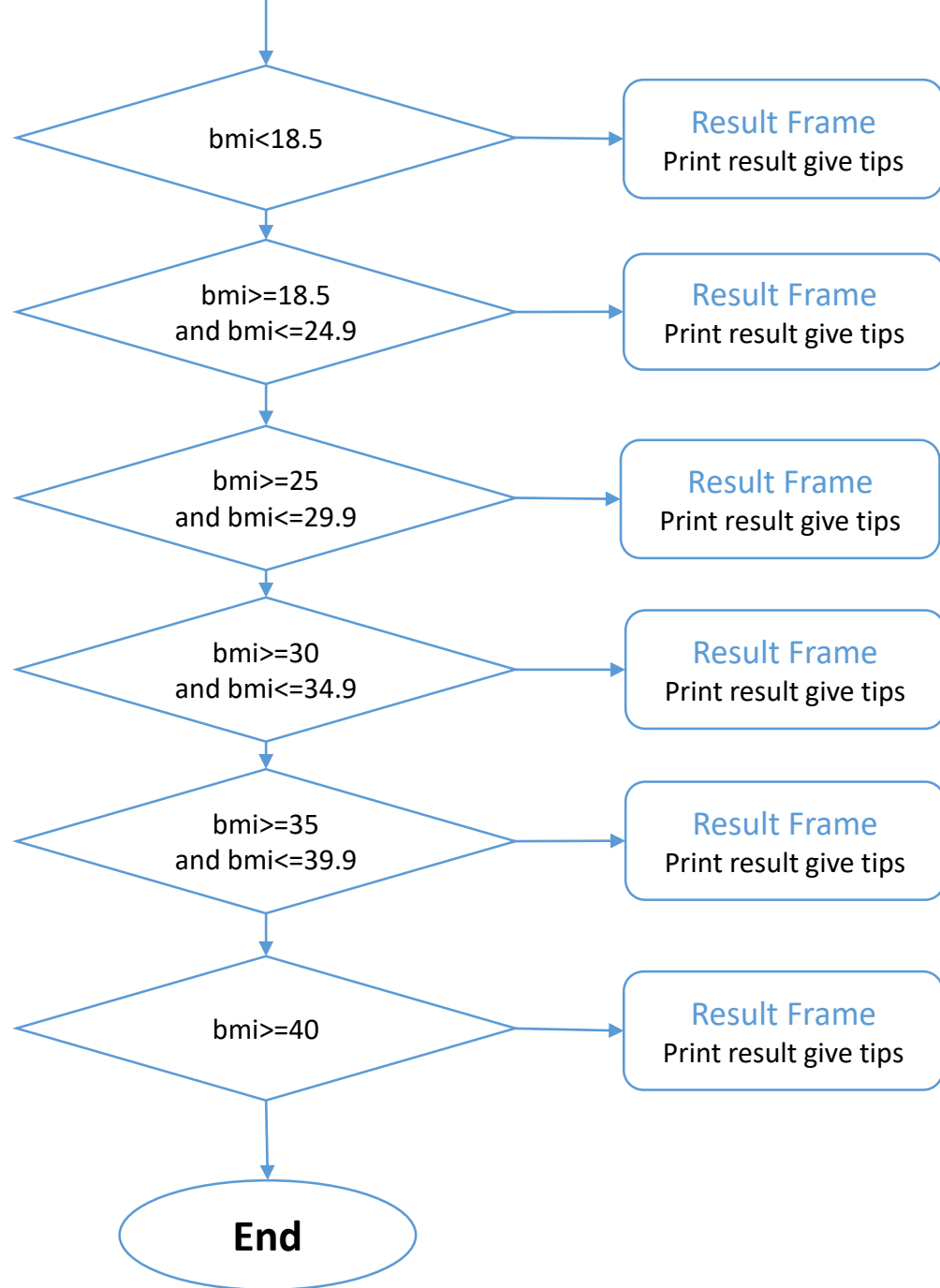
Description :

Health is a state of complete physical, mental and social well-being. Maintaining good health is more important for student to concentrate in their works specially in study. My project works to measure if a student is healthy or unhealthy. It takes student data and save each data in a file continuously. It calculate the BMI value and show the result in a frame. And finally, give some tips what they should do.

Working process:

Flowchart:





Project Feature and Descriptions:

1. Displaying Front page:

This is the front page of my project. I create a Frame on FrontPage.java class to show the main feature of my project. Here anybody choose two options(button).

Button-1: Click Here to test Yourself

Button-2: Health Tips

In every frame I use some class and method which are use repeatedly in each frame.

Method: setVisible(),setBounds() setBackground() setBounds()
,setDefaultCloseOperation()

Classes: Container,JPanel,Jlbel,Imagelcon,JButton,JTextArea,JTextField classes and their required methods

Interface:ActionListener and its necessary methods



2.User Data Page:

If anybody press the first button he can go to the second frame. Because InputData.java class object is declared in first frame. In this frame user can input their data to their result .

Here I use JLabel ,JTextField classes and getText() method to get user data and a Button to save their data in a .txt file .

Prime code:

To save user data , I instantiate

>> File class object to create file

>> FileWriter class object to create file in fixed directory and true mode

>> pass FileWriter object in BufferedWriter class constructor

>> use write() method to write in file

>> and use try catch block to catch exception

3.Displaying Result Page:

If user click the result button then this page is open because ShowData class object is called in previous class .

Prime code:

Here I use getText() method to get previous hight(inch),hight(feet),weight and age in string.

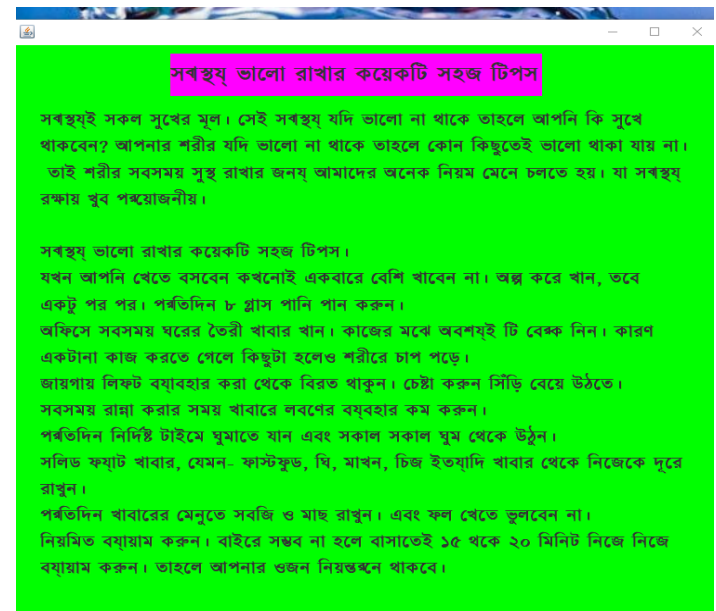
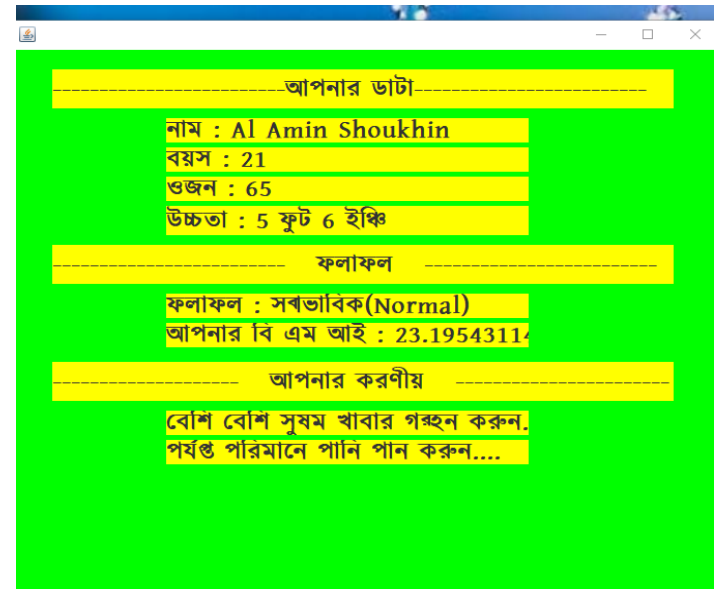
And use purseDouble() method to convert the those value into double type and calculate BMI

And Finally give result by checking condition of BMI value with if-else and else if statement in this frame.

For displaying result int bangla language I use "Kalpurus" bangla font

4.Health Tips Page:

If user click the 2nd Button in front page ,he can go to this page.He will benefited by taking this important tips.



Conclusion:

Student health and fitness test is very essential for a sound health and sound mind. For not only students but also this project help everybody to measure if she/he is fit or unfit.