

**ASSIGNMENT 1**

**SECJ1013-08**

**PROGRAMMING TECHNIQUE I**

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Case Study 2

1. Start

2. Print “Input mass in kg”

3. Input mass

4. While(mass<0)

4.1.  Print “Mass cannot be negative value”

4.2.  Print “Input mass in kg”

4.3.  Input mass

5. Endwhile

6. Print “Input height in cm”

7. Input height\_cm

8. While(height\_cm<0)

8.1.  Print “Height cannot be negative value”

8.2.  Print “Input height in cm”

8.3.  Input height\_cm

9. Endwhile

10.  Convert height in cm to m:

height\_m = height\_cm/100

11.  Calculate BMI:

bmi = mass/(height\_m\*height\_m)

12.  if(bmi<18.5)

12.1. Print “Your bmi is”

12.2. Output bmi

12.3. Print “You are underweight”

13.  elseif(bmi>=18.5 && bmi<=24.9)

13.1. Print “Your bmi is”

13.2. Output bmi

13.3. Print “You are healthy”

14.  elseif(bmi>=25.0 && bmi<=29.9)

14.1. Print “Your bmi is”

14.2. Output bmi

14.3. Print “You are overweight”

15.  else

15.1. Print “Your bmi is”

15.2. Output bmi

15.3. Print “You are obese”

16.  Endif

17.  if(bmi>=25.0)

17.1. healthy\_mass = 24.9(height\_m\*height\_m)

17.2. reduce\_mass = mass – healthy\_mass

17.3. Print “To achieve healthy BMI, you should reduce your weight by”

17.4. Output reduce\_mass

17.5. Print “kg”

18.  Endif

19.  End