



ST FRANCIS DE SALES COLLEGE

Permanently Affiliated to Bangalore University || AICTE Approved Electronic City, Bengaluru - 100

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A FRANSALIAN INSTITUTE OF HIGHER LEARNING

Title	ICT Skills - " CODING ROOM"
Date of Event(s)	16 May 2023
Class Activity	Computer Applications
Venue (Mention the platform if it is online)	Codingrooms.com
Number of Participants	80
Target Audience	II BCA

The objective of the Program:

Today's increasingly digital world demands a deeper understanding of coding and technology interaction. The ability to code enables individuals to navigate and utilize technology effectively, whether they're using software applications, understanding algorithms, or troubleshooting technical problems.

In coding, complicated problems are broken down into smaller, manageable steps and logical solutions are designed. As a result, it enhances critical thinking, analytical skills, and the ability to approach challenges systematically. A high level of problem-solving skills is valued everywhere, from academia to professional settings to everyday life.

Coding room (<https://www.codingrooms.com/>) IDE is a powerful, easy to use, browser-based development environment. It is a real-time platform for teaching programming online that allows teachers to engage with their students' code instantly. Prof Veena who handles the paper "Object Oriented Programming using Java" used this platform to engage and encourage students in coding. She assigned some programs like Calculate BMI, Tip calculator etc. The problems were defined clearly stated, formula and hints to solve the given.

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The model solution for the problem prepared by the instructor and some test cases are added to evaluate the students' work. Their solutions are checked against the test cases and model solutions and are graded accordingly.

The instructor can see the number of students the student has attempted to solve the problem. The class was excited to use the platform. It encouraged them to get better and their solution close to the sample output.

The outcome of the program:

This activity helped the students to reflect on their understanding of the topic and enhanced their coding skills. It enhanced their problem-solving skills, creativity, algorithmic, sequential and computational thinking skills

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Student preview:

← BCA SEM 2

Exercise 1 - BMI

Overview My Submissions Test Runs

Write a program that calculates the Body Mass Index (BMI) from a user's weight and height.

The BMI is a measure of someone's weight that takes into account their height. A person is tall person and a short person both weigh the same amount, the short person is usually more overweight.

The BMI is calculated by dividing a person's weight (in kg) by the square of their height (in m):

$$BMI = \frac{weight(kg)}{height^2(m^2)}$$

Sample Input:

```
Enter your weight in kilogram: 80
Enter your height in meters: 1.75
```

Sample Output:

```
Your BMI is:26
```

Warning: The output in your program should match the sample output shown below exactly, character for character, even spaces and symbols should be identical, otherwise the tests won't pass.

Hint

1. Check the data type of the inputs.
2. Recall the conversion of arithmetic expressions into Java expression.
3. Remember to convert your result to a whole number (int).

Test Your Code

Check your code is doing what it is supposed to. When it fails, mess with your code, click Submit to check your progress.

Grade book:

Coding Rooms

Courses

Live Classrooms

Workspaces

Help Center

← BCA SEM 2

Exercise 1 - BMI

Overview Assign Template Test Bench Model Solution **Gradebook**

Section: BCA SEM 2

Name	Submissions	Most Recent Score	Top Score	First Score	Average Score	Actions
veena N In-progress	0	—	—	—	—	KS
anand_156 Submitted	1	100%	100%	100%	100%	KS
janardhanw_022 Submitted	7	100%	100%	0%	71.43%	KS
madhusirees_080 Submitted	1	0%	0%	0%	0%	KS
ganeshprasad_007 Submitted	3	100%	100%	0%	33.33%	KS

Screenshots:

Coding Rooms | Courses | Live Classrooms | Workspaces | Help Center

BCA SEM 2

Assignments | Use Classroom | Coursebook | Section | Student | Section

Section: BCA SEM 2 | Status: Published (Online)

0 modules, 1 segments

Exercise 1 - BMI | Submit

Due: 10/10/2020 10:00 AM

BCA SEM 2

Exercise 1 - BMI

Overview | Progress | Workspace | Test Results | Model Solution | Coursebook

Title: Exercise 1 - BMI

Prompt

Paragraph

Write a program that calculates the Body Mass Index (BMI) from a user's weight and height.

The BMI is a measure of someone's weight taking into account their height. If a tall person and a short person both weigh the same amount, the short person is usually more overweight.

The BMI is calculated by dividing a person's weight (in kg) by the square of their height (in m).

$$BMI = \frac{\text{weight (kg)}}{\text{height}^2 (\text{m}^2)}$$

Sample Input

Enter your weight in kilogram: 80
Enter your height in meters: 1.75

Sample Output

Assignment	Course	Live Classrooms	Workspaces	Help Center
Assignment 1	BCA SEM 2	10/10	10/10	10/10
Assignment 2	BCA SEM 2	10/10	10/10	10/10
Assignment 3	BCA SEM 2	10/10	10/10	10/10
Assignment 4	BCA SEM 2	10/10	10/10	10/10
Assignment 5	BCA SEM 2	10/10	10/10	10/10
Assignment 6	BCA SEM 2	10/10	10/10	10/10
Assignment 7	BCA SEM 2	10/10	10/10	10/10
Assignment 8	BCA SEM 2	10/10	10/10	10/10
Assignment 9	BCA SEM 2	10/10	10/10	10/10
Assignment 10	BCA SEM 2	10/10	10/10	10/10
Assignment 11	BCA SEM 2	10/10	10/10	10/10
Assignment 12	BCA SEM 2	10/10	10/10	10/10
Assignment 13	BCA SEM 2	10/10	10/10	10/10
Assignment 14	BCA SEM 2	10/10	10/10	10/10
Assignment 15	BCA SEM 2	10/10	10/10	10/10
Assignment 16	BCA SEM 2	10/10	10/10	10/10
Assignment 17	BCA SEM 2	10/10	10/10	10/10
Assignment 18	BCA SEM 2	10/10	10/10	10/10
Assignment 19	BCA SEM 2	10/10	10/10	10/10
Assignment 20	BCA SEM 2	10/10	10/10	10/10

