

Higher Diploma in Information Technology

Object Oriented Programming (Java)

Year 1 Semester 2 - 2021

Nested Classes

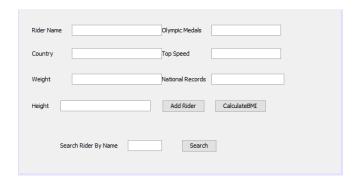
Intended Learning Outcomes:

At the end of the class the students should be able to:

- To use Nested classes in java Applications
- 1. Write a class called Rider with following attributes and methods
 - Attributes
 - o Name
 - Country
 - Age
 - o Weight
 - o Height
 - Nested class Records with following attributes and methods.
 - o Attributes
 - ✓ No Of Olympic Medals.
 - ✓ TopSpeed.
 - ✓ No_National_Level_Records.
 - Methods
 - ✓ Constructor: -Take values accordingly
 - ✓ displayRecords:-Print all the details.
- 2. Write a method called calBMI which has a method local inner class called BMI as follows
 - Attributes
 - $\circ \ WeightMetric$
 - HeightMetric
 - Methods
 - o BMIMetric()-return bmi as a double value as follows

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

3. Design the UI as follows.



4. Call the inner classes methods to implement the features described in the UI