

# Midterm Test

[Total Marks: 100]

**INSTRUCTOR:** Jigisha Patel  
**CLASS:** 2018W\_MAD3004\_1  
Introduction to Swift Programming  
**Evaluation:** 30%  
**Date:** 07 Feb 2018, Wednesday  
2 Hours

## Do as directed.

1. Create a **Sports** class containing the following members:
  - Sports type [indoor / outdoor]
  - No. of players per team
2. Create **Cricket** class containing the following members:
  - Format [t-20 / test match / one day]
  - No. of overs per inning
  - Total wickets down
  - Total runs scored
  - Total overs played
  - Average run rate
3. Create **Football** class containing the following members:
  - No. of minutes
  - No. of minutes played
  - No. of goals scored
  - Total red card issued
  - Penalty time
  - Penalty shootout goals
4. Create appropriate initializers, methods and computed properties for all the classes.
5. Create a protocol to display necessary information from Sports and Cricket classes.
6. Create at least two objects of Cricket and Football classes each.
7. Call different methods of Cricket and Football class and display output in proper format.

**Note:** Create a **FirstName\_CollegeID\_MAD3004\_MidtermTest.zip** file containing all files and upload it on Moodle for submission.