

Resit Coursework 01

Deadline: 7th Sept 2020 (Monday)

Coursework Specification

ABC cricket tournament is an annual tournament which will be held in 4 venues. Ten school teams are invited to join the competition and each team has 11 players. You are instructed to create a system that can be used to store player performance.

Before the tournament starts you need to enter the following details for each player (initial stage).

- Player name
- School team
- Age
- Role : Captain/vice-captain/wicket-keeper/batsman/bowler

During the tournament, you are instructed to record the following details. This is usually after each match (secondary stage)

For each player

- Runs scored for the match
- Boundaries executed for the match
- Strike rate during the match
- Any important incident that needs to record
- Venue/match specific information

You are required to,

Write an application in Java to,

- Input the initial and secondary stage information, validate and store them in an appropriate manner.
- Draw a flowchart and write the pseudocode for the following functionality
 - Find the player who scored the highest total marks during the competition
- Select and display the following winners,
 - The player who scored the highest total marks during the tournament

- The player with the highest boundaries during the tournament
- The player who has the highest average for a single venue
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- Your application should also feature the following functionality.
 - A menu option to view all players of a certain team
 - An option to view a selected player's details given the player name.
 - An option to view all three winners
 - An option to view match information

You should include the **test plan** and **evidence(screenshots of working application)** in your **final report**. Marks will be gained for the use of **appropriate functional decomposition** of the problem.

Please make sure you format your source code and the rest of the report before printing; presentation carries marks!

You should upload the following at the campus office:

- Include a CD (soft copy) with your source code & and the final report.
- You should include a cover page with your details.

Marks will be lost if you do not follow the Department Coding Standard for code layout.

The cover sheet of your assignment **should include the following information:**

Informatics Institute of Technology

Department of Computing

Module: 4COSC010C Programming Principles

Module Leader: Mr. Guhanathan P / Mr. Rajitha J

Coursework

Date of submission: Please specify the date here

Student ID:

Student First Name:

Student Surname:

Marking Scheme

Description	Mark
Command line application – Initial + secondary stage	10
Design <ul style="list-style-type: none"> • Flowchart • Pseudocode Scenario : Find the player who scored the highest total marks during the competition	5 5
Calculation <ul style="list-style-type: none"> • The highest total marks during the tournament • Highest boundaries during the tournament • Highest average for a single venue 	5+5+5 = 15
UI functionality <ul style="list-style-type: none"> • View all players of a certain team • View a selected player's details given the player name. • View all three winners • View match information 	5+5+5+5 = 20
Test plan	10
Data validation	10
Data persistence	10
Good usability/ UI aspects	10
Code quality	5