

Object Oriented Programming

Term Project

Stage 02

Marks 100

Instructions

You are required to work on this project **individually**. Absolutely **NO collaboration** is allowed. Any traces of plagiarism would result in an **“F”** grade in this course and possibly **disciplinary action**. You are also **strictly not allowed** to discuss or take help from any of your peer student(s) but taking advice from your **Teacher** and from **Teacher Assistants** will be highly appreciated 😊😊😊

Due Date and Submission Instructions

Send the **source code .cpp file only** labeled with your complete roll at areeba.ilyas@pucit.edu.pk on **Sunday, January 14, 2018** till **11:59 PM**.

INTRODUCTION

In the previous stage of your project you develop a game Tic – Tac – Toe for two human players. Now you are required to add a new feature through which a player can play with computer. So to make this happen program your code in such a way that the computer should give humans a very tough time 😊. Place **X** and **O** whenever human and computer make a move respectively.

SAMPLE EXECUTION

Welcome to Tic – Tac – Toe

1. Single Player (Human vs Computer)
2. Two Player (Human vs Human)

Enter your choice: 1

Select playing grid

1. 3 X 3
2. 4 X 4
3. 5 X 5

Enter your choice: 1

1	2	3
4	5	6
7	8	9

Human: Select a location: 1

X	2	O
4	5	6
7	8	9

Human: Select a location: 4

X	2	O
X	5	O
7	8	9

Human: Select a location: 7

X	2	O
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X	5	0
X	8	9

Human Wins

Want to play again [Y/N]: Y

1. Single Player (Human vs Computer)
2. Two Player (Human vs Human)

Enter your choice: 1

Select playing grid

1. 3 X 3
2. 4 X 4
3. 5 X 5

Enter your choice: 1

1	2	3
4	5	6
7	8	9

Human: Select a location: 1

X	2	0
4	5	6
7	8	9

Human: Select a location: 4

X	2	0
X	5	0
7	8	9

Human: Select a location: 5

X	2	0
X	X	0
7	8	0

Computer Wins

Want to play again [Y/N]: Y

1. Single Player (Human vs Computer)
2. Two Player (Human vs Human)

Enter your choice: 1

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MARKS DISTRIBUTION

Execution	Error Handling	Coding Style	Comments	Total
50	20	20	10	100

NOTE: - No submission will be accepted after the due time of Sunday, 14th January 2018.

B E S T O F L U C K