## Year 8 IST – Semester Two Assignment One (40%)

## Name:

Item		Total	Mark
Imple	ment the basicComputerPlayer() function (6 marks)		
Provides code which generates a random number between 0 – 2		2	
Correctly calls the displayComputerPlayerSymbol function		2	
Returns the randomly generated number		2	
Finisl	the checkWinner(humanChoice, computerChoice) function (11	marks)	
Huma	n player wins:		
•	Rock (0) beats scissors (2)	1	
•	Paper (1) beats rock (0)	1	
•	Scissors (2) beats paper (1)	1	
Comp	uter player wins		
•	Rock (0) beats scissors (2)	1	
•	Paper (1) beats rock (0)	1	
•	Scissors (2) beats paper (1)	1	
Retur	ns either "Human" or "Computer" at the appropriate locations.	2	
Uses conditions which do not fall-through (i.e. stops when the first conditional evaluating to <i>true</i> is found) for improved efficiency, such as else-if statements or switch-break statements.		3	
Finisl	n the updateScores (winner) function (8 marks)		
Condi	tions to check who is the winner, based on the winner parameter	2	
Increments the score global variable for the winner		2	
Gets a reference to the div containing the winner's score		2	
Updates the div with the new score		2	
Imple	ment the advancedComputerPlayer() function (15 marks)		
Creates additional variables to track whether the computer won the last round, and the computer's choice for the last round.		2	
Checks whether the computer won the last round		1	
If so:			
•	Plays the same choice again (calls displayComputerPlayerSymbol and returns that choice)	4	
If not:			
•	Generates a random number between $0-2$ which does not match choice of the computer from the last round	4	
•	Calls the displayComputerPlayerSymbol with the new choice	2	
•	Returns the new choice	2	
TOTAL		40	