QBasic Programming - Internal Assessment Sample Projects 1, 2, 3 July 19	
Requirements:	1. Square
A floppy diskette is required for storing programs.	2. Rectangle 3. Triangle
Project Assessment 1: - 10%	4. Parallelogram 5. Trapezoid
Develop a program to calculate the Volume of a Sphere by using the formula:	6. Rhombus 7. Circle
$V=\frac{3}{4}\pi r^2$; $\pi=3.141593$	Quit [Select an option to continue]
Your submitted work will include the following:-	
 The Five Design steps discussed in class to develop a program. Flow Chart Program Source Code 	(sample selection of option 6, the screen disappears and displays the following)
☐ Signed validation of Program execution	[6 Phombus]
Project Assessment 2: - 10% Write a program to calculate the area of a number of different mathematical shapes with the below sample output.	[6. Rhombus] The area of a rhombus is calculated with the formula a=bh. b: what is the base? h: what is the height?
The program must show use of exit-condition loop structure, condi-	The area for the rhombus is
tional statements, and a design methodology including flow-chart is required.	(sample selection of option 0, the screen disappears and displays the following)
Your submitted work will include the following:- ☐ The Five Design steps discussed in class to develop a program. ☐ Flow Chart ☐ Program Source Code ☐ Signed validation of Program execution	[0. Quit] Thank-you for using our software (c) 1998 Royal Blue Enterprises Author: Date:
Sample Output [Main Menu] This program will let you calculate the area of any of the below selected shapes, using the standard mathematical formulas. Select a Shape by typing the number corresponding to the shape.	Project Assessment 3: - 10% Program Design Logic. You have been assigned the task of developing a program to simulate the game of "Craps". You are being supplied with the logic of the game and a flow chart of how the program game should flow. Write

the QBasic program and make any corrections, modifications to the logic as is required. The game rule can be accepted as true and will be from which the program code will be compred.
The game should allow the option for the player to throw the dice, quit, and continue with another game.
Craps, a dice game: Game Rules Number of Dice: 2 1st Throw: If sum of the dice is 7 or 11, the dice player wins If sum of the dice is 2 or 3 or 12, the player loses All other numbers become the player's "points"
2nd and subsequent throws If the sum of the dice is 7, the player loses and loses a turn If the sum of the dice is equal to the player's points, the player wins.
Your submitted work will include the following:- ☐ The Five Design steps discussed in class to develop a program. ☐ Flow Chart ☐ Program Source Code ☐ Signed validation of Program execution
Overall internal assessment mark: 30%

