

**International Study Centre**

**Computing and Engineering**

**XFX1073 Computing Module**

***Tutor Name: John Alamina***

***Project Title: Areas of Shapes***

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# 1. Project Introduction, Aim and Objectives

## 1.1 Introduction

* What is the project?  
  The project is about finding the areas of different shapes such as Triangle, rectangle, circle, Square etc.
* What are you trying to develop in your code (aims)?  
  We are trying to develop a code that takes input from the user and gives the area for a specific shape.

## 1.2 Aim and Objectives

* Finding areas of different shapes
* To get the results for areas of shapes simply
* Taking inputs from the users to calculate the area#
* Making calculation as smooth as possible

# 2. Project Implementation

I have used Classes and functions to get to where I wanted, I have used different formulas and implemented them in the code to calculate areas of different shapes, for example in line 63 of “ shapes.cpp” I used PI and sqr(radius) to find the area of circle  
  
**How many functions, classes you have used, and what are they??**  
I have used 5 functions so far, defining rectangle, triangle, square, circle. And 7 classes for the purpose of rectangle, triangle, square, circle and PI and SQR.

**Functionality for every section of the code?**Each section performs a unique function and has its own purpose, but some sections are connected with each other to performs the task, such as line 50 is connected with line 62.

# 3. Project Results

Show pictures of all parts of the project working.  
  
A screenshot of a computer screen

Description automatically generatedA screenshot of a computer screen

Description automatically generatedA screenshot of a computer screen

Description automatically generatedA screenshot of a computer screen

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# 4. Project Conclusion and Future Work

## 4.1 Project Conclusion

Conclude your report.

I conclude my report by saying finding area of different shapes has been made easier with programme that is created here, a user has to simple type in the values for the shape and area is calculated for the user by the computer smoothly and accurately.

## 4.2 Future Work

What could be done better next time, any other features and improvements that could be added?

Many things can be added next time as well, such as solving mathematical problems, features like more different shapes such as parallelogram, cylinder could be added as new features.