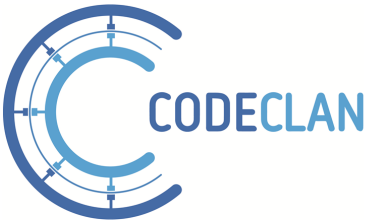


Evidence Gathering
Level 8 Professional

Document for SQA
Developer Award.

This document is designed for you to present your screenshots and diagrams relevant to the PDA and to also give a short description of what you are showing to clarify understanding for the assessor.

Each point that required details the Assessment Criteria (What you have to show) along with a brief description of the kind of things you should be showing.

Please fill in each point with screenshot or diagram and description of what you are showing.

Week 2

Unit	Ref	Evidence	
I&T	I.T.5	Demonstrate the use of an array in a program. Take screenshots of: *An array in a program *A function that uses the array *The result of the function running	
		Description:	

Paste Screenshot here
Array 'Guest_List'

```ruby
class Room

  attr_reader :name, :capacity
  attr_accessor :guests, :songs

  def initialize(name, capacity)
    @name = name
    @capacity = capacity
    @guests = []
    @songs = []
  end
```

Capture of my function that utilises ‘Guest_List' array.

```ruby
  def check_in_guest(guest)
    room = get_room_with_space()
    room.guests.push(guest)
    return room
  end

  def check_out_guest(guest, room)
    room.guests.delete(guest)
  end
```

Result of my function 'check_out_guest' running passing in the array 'Guest_List' as a parameter.

Unit	Ref	Evidence	
I&T	I.T.6	Demonstrate the use of a hash in a program. Take screenshots of: *A hash in a program *A function that uses the hash *The result of the function running	
		Description:	

Hash within my program

```ruby
def test_get_first_key
  # arrange
  wallets = {
    "Alice" => 12,
    "Bob"  => 10,
    "Charlie"  => 1356,
    "Dave" => 1
  }
  # act
  result = get_first_key( wallets )
  # assert
  assert_equal( 'Alice', result )
end

```

Hash being used in a function

```ruby
# get first key -
def get_first_key(hash_table)
  return hash_table.keys[0]
end
```

Result of using hash within my function

```
➜ start_point 2 ruby specs/my_functions_spec.rb
Run options: --seed 62703

# Running:

.....

Finished in 0.001184s, 4222.9740 runs/s, 4222.9740 assertions/s.

5 runs, 5 assertions, 0 failures, 0 errors, 0 skips
➜ start_point 2
```

Week 3

Unit	Ref	Evidence	
I&T	I.T.3	Demonstrate searching data in a program. Take screenshots of: *Function that searches data *The result of the function running	
		Description:	

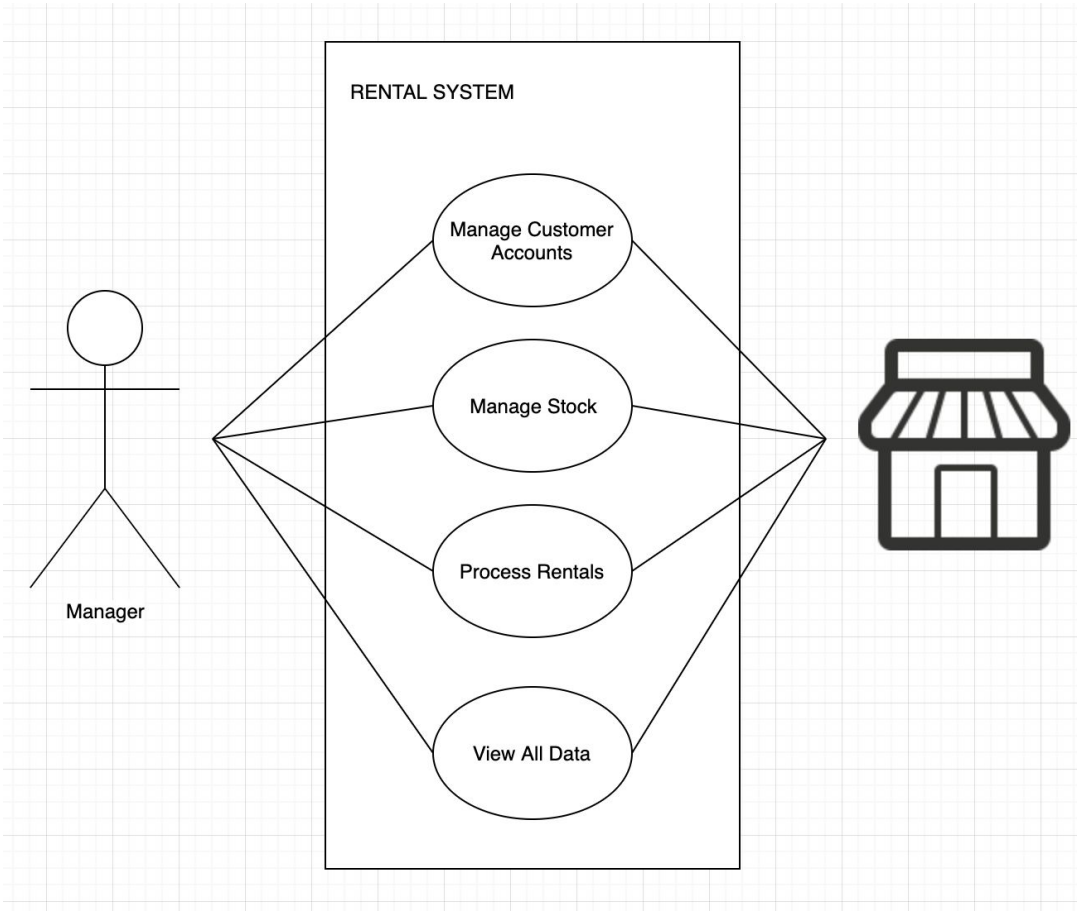
```ruby
def has_song(song_name)
  song = @songs.find{|song| song.title == song_name }
  # binding.pry
  if(song == nil)
    return false
  end
  return true
end
```

Unit	Ref	Evidence	
I&T	I.T.4	Demonstrate sorting data in a program. Take screenshots of: *Function that sorts data *The result of the function running	
		Description:	

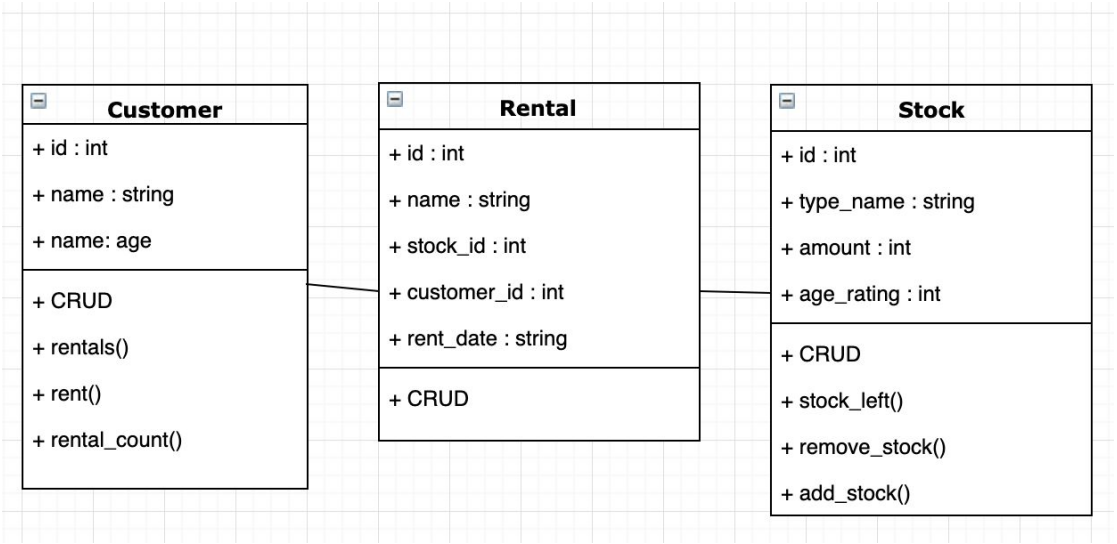
Paste Screenshot here

Week 5 and 6

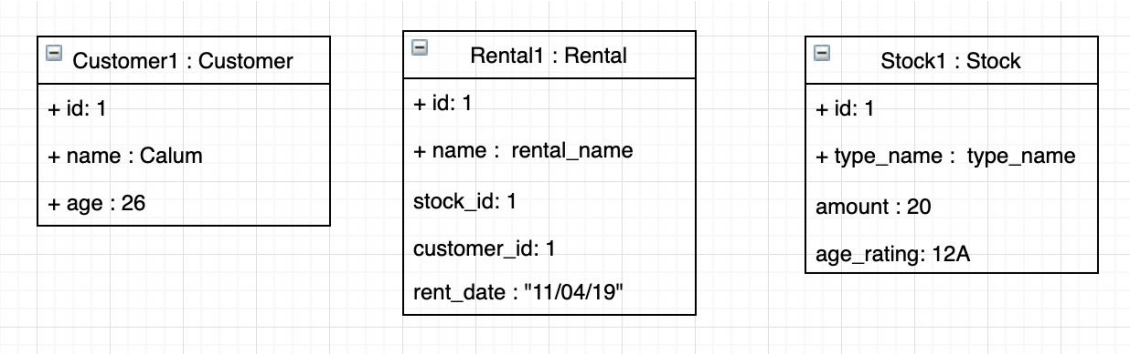
Unit	Ref	Evidence	
A&D	A.D.1	A Use Case Diagram	
		Description:	



Unit	Ref	Evidence	
A&D	A.D.2	A Class Diagram	
		Description:	

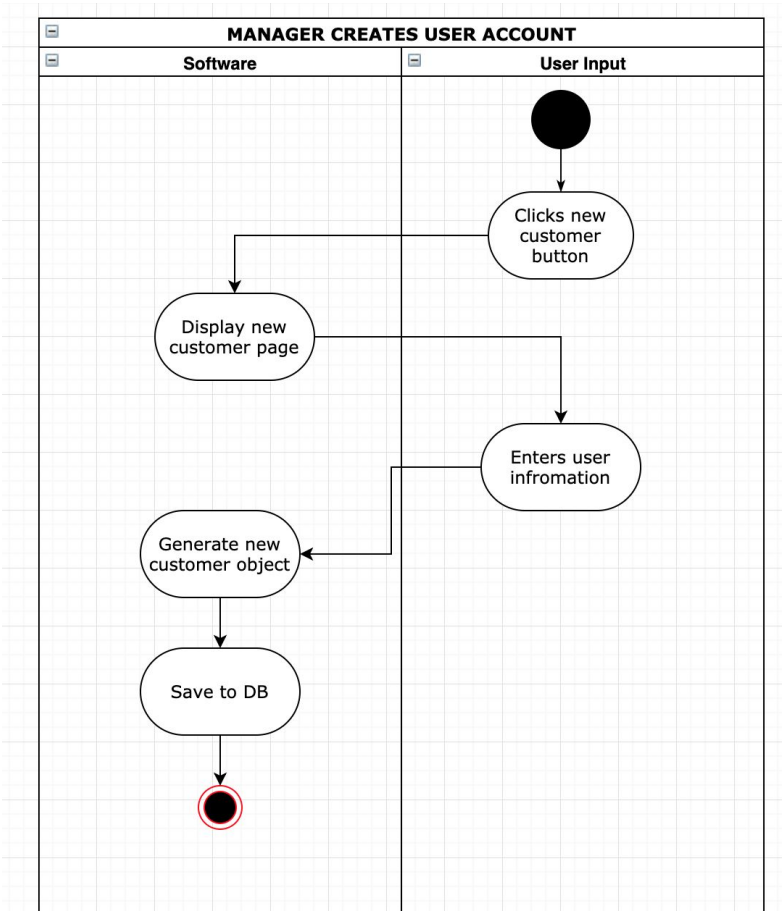


Unit	Ref	Evidence	
A&D	A.D.3	An Object Diagram	
		Description:	



Unit	Ref	Evidence	
A&D	A.D.4	An Activity Diagram	

		Description:



Unit	**Ref**	**Evidence**	
A&D	A.D.6	Produce an Implementations Constraints plan detailing the following factors: *Hardware and software platforms *Performance requirements *Persistent storage and transactions *Usability *Budgets *Time	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.5	User Site Map	
		Description:	

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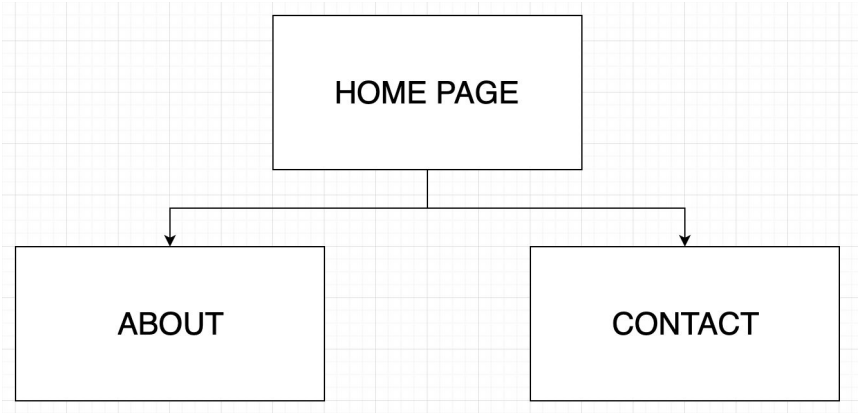
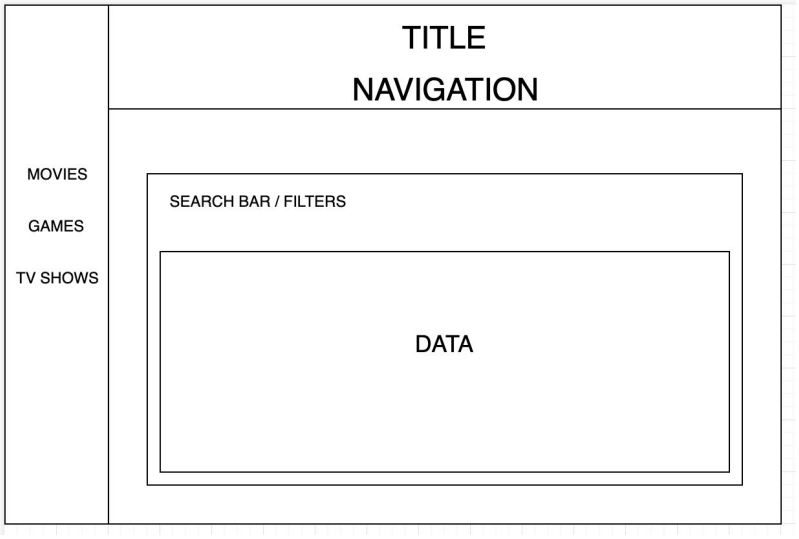
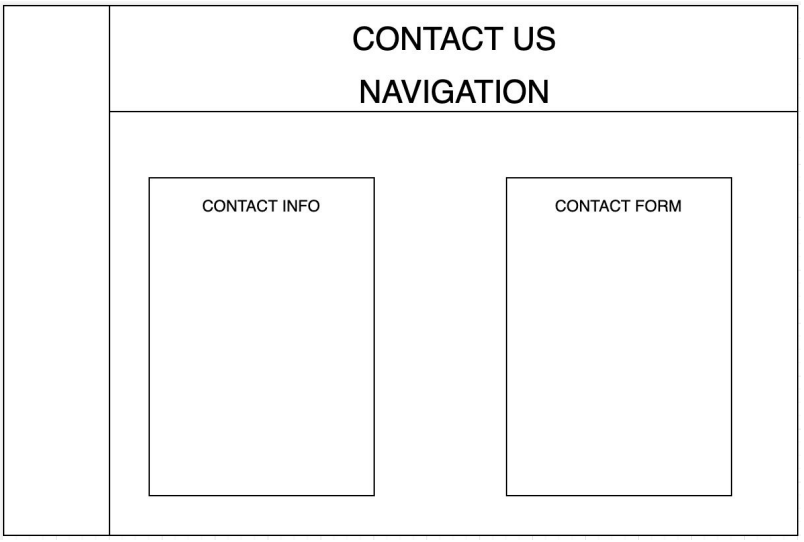


Unit	Ref	Evidence	
P	P.6	2 Wireframe Diagrams	
		Description:	

Paste Screenshot here





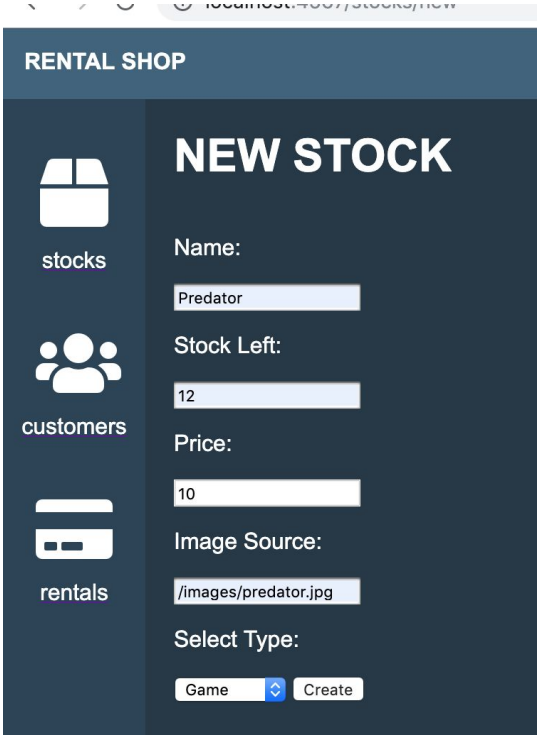
Unit	Ref	Evidence	
P	P.10	Example of Pseudocode used for a method	
		Description:	

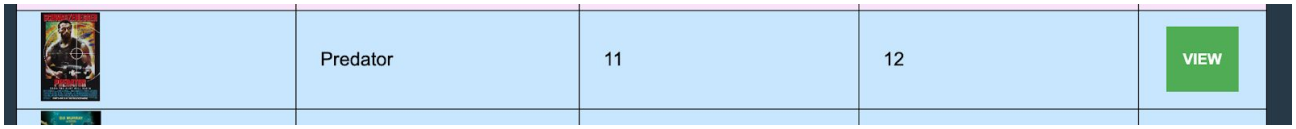
Paste Screenshot here

Save Function:
Set SQL command
Set values array
Get result
Set Id

Unit	Ref	Evidence	
P	P.13	Show user input being processed according to design requirements. Take a screenshot of: * The user inputting something into your program * The user input being saved or used in some way	
		Description:	

Paste Screenshot here





Unit	Ref	Evidence	
P	P.14	Show an interaction with data persistence. Take a screenshot of: * Data being inputted into your program * Confirmation of the data being saved	
		Description:	

Paste Screenshot here

```
def save
  sql = "INSERT INTO rentals (customer_id, stock_id, rent_date) VALUES ($1,$2, $3) RETURNING id"
  values = [@customer_id, @stock_id, @rent_date]
  result = SqlRunner.run(sql, values).first()
  @id = result["id"].to_i
end
```

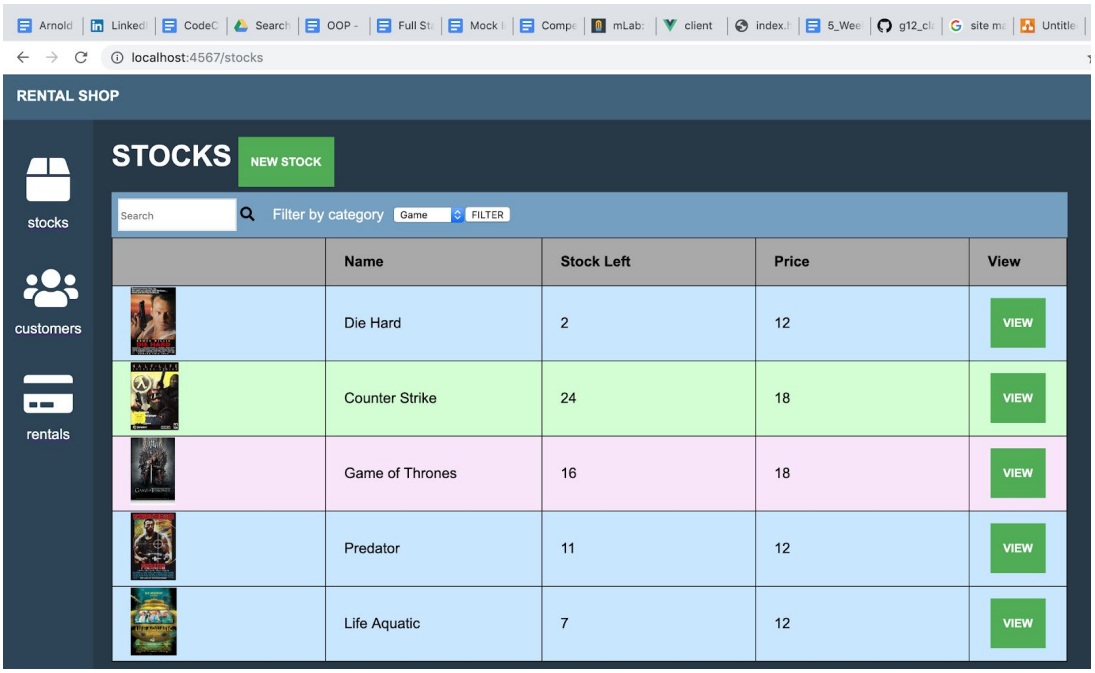
```
[rentals=# SELECT * FROM stocks;
 id |      name       | amount | price |          image           |  type
----+-----------------+--------+-------+--------------------------+--------
  3 | Die Hard        |      2 |    12 | /images/diehard.jpeg     | Film
  4 | Counter Strike  |     24 |    18 | /images/cs.jpeg          | Game
  5 | Game of Thrones |     16 |    18 | /images/GoT.jpg          | TV-Show
  7 | Predator        |     11 |    12 | /images/predator.jpg     | Film
  2 | Life Aquatic    |      7 |    12 | /images/LifeAquatic.jpg  | Film
(5 rows)
```

Unit	Ref	Evidence	
P	P.15	Show the correct output of results and feedback to user. Take a screenshot of: * The user requesting information or an action to be performed * The user request being processed correctly and demonstrated in the program	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.11	Take a screenshot of one of your projects where you have worked alone and attach the Github link.	
		Description:	

Paste Screenshot here



https://github.com/CalumCannon/MVC-rental-shop-project

Week 7

Unit	Ref	Evidence	
P	P.16	Show an API being used within your program. Take a screenshot of: * The code that uses or implements the API * The API being used by the program whilst running	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.18	Demonstrate testing in your program. Take screenshots of: * Example of test code * The test code failing to pass * Example of the test code once errors have been corrected * The test code passing	
		Description:	

Paste Screenshot here

Week 9

Unit	Ref	Evidence	
P	P.1	Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.12	Take screenshots or photos of your planning and the different stages of development to show changes.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.2	Take a screenshot of the project brief from your group project.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.3	Provide a screenshot of the planning you completed during your group project, e.g. Trello MOSCOW board.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.4	Write an acceptance criteria and test plan.	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.7	Produce two system interaction diagrams (sequence and/or collaboration diagrams).	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.8	Produce two object diagrams.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	

P	P.17	Produce a bug tracking report
		Description:

Paste Screenshot here

Week 12

Unit	**Ref**	**Evidence**	
I&T	I.T.7	The use of Polymorphism in a program and what it is doing.	
		Description:	

Paste Screenshot here

Unit	**Ref**	**Evidence**	
A&D	A.D.5	An Inheritance Diagram	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
I&T	I.T.1	The use of Encapsulation in a program and what it is doing.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
I&T	I.T.2	Take a screenshot of the use of Inheritance in a program. Take screenshots of: *A Class *A Class that inherits from the previous class *An Object in the inherited class *A Method that uses the information inherited from another class.	
		Description:	

Paste Screenshot here

Unit	Ref	Evidence	
P	P.9	Select two algorithms you have written (NOT the group project). Take a screenshot of each and write a short statement on why you have chosen to use those algorithms.	
		Description:	

Paste Screenshot here