# Assessment Checklist

You are required to implement the program in an object oriented manner. The solution must demonstrate each of the following, shown in the tables below. To help you to ensure that you have covered all the points required in the implementation of the assessment please complete the tables below for each point. Include examples, observations, and justification where appropriate.

## Design requirements:

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| --- |
| **Abstraction, encapsulation and information hiding used where appropriate** |
| Examples: |

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| **Inheritance used if appropriate to the solution** |
| Examples: |

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| **Polymorphism used if appropriate to the solution** |
| Examples: |

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| **All class-wide variables are private to prevent content coupling class-wide variables are kept to a minimum to ensure a minimum of common coupling** |
| Examples: |

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| **Data coupling is used (parameter passing) in preference to content or common coupling** |
| Examples: |

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| **Program does not contain a lot of unnecessary data coupling** |
| Examples: |

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| **Classes are highly cohesive** |
| Examples: |

## Implementation requirements:

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| **A working solution which meets the requirements of the given brief** |
| Comments: |

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| --- |
| **Variables are correctly declared and initialised** |
| Examples: |

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| **Arithmetic and/or logical operators are used correctly** |
| Examples: |

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| **A range of control structures are implemented correctly** |
| Examples: |

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| **At least two data structures are implemented correctly** |
| Examples: |

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| **The program contains a minimum of four classes, which contain attributes, methods and a constructor method** |
| Examples: |

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| **A minimum of three objects are created from the classes, with appropriate initial attribute values set through the constructor methods** |
| Examples: |

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| **The program contains at least one overloaded method (this may be a constructor method)** |
| Examples: |

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| **Classes are linked appropriately through association, aggregation or inheritance relationships** |
| Examples: |

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| **Parameters are passed correctly both within and between objects** |
| Examples: |

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| --- |
| **Appropriate access types are defined for methods, attributes and classes** |
| Examples: |

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| **Use of pre-defined classes and/or methods from the standard object library** |
| Examples: |

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| **The program appropriately handles errors with exceptions or pre-validation** |
| Examples: |

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| The program code is commented appropriately throughout |
| Examples: |