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| **ASSIGNMENT** | |
| **Course Code** | 19CSC213A |
| **Course Name** | Programming Paradigms |
| **Programme** | B. Tech |
| **Department** | Computer Science & Engineering |
| **Faculty** | Faculty of Engineering Technology |

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| **Name of the Student** | SUBHENDU MAJI |
| **Reg. No** | 18ETCS002121 |
| **Semester/Year** | 4th / 2020 |
| **Course Leader/s** | Ms. Naveeta |

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| **Declaration Sheet** | | | | | | | | |
| Student Name | SUBHENDU MAJI | | | | | | | |
| Reg. No | 18ETCS002121 | | | | | | | |
| Programme | B. Tech | | | | | Semester/Year | 4th / 2020 | |
| Course Code | 19CSC213A | | | | | | | |
| Course Title | Programming Paradigms | | | | | | | |
| Course Date |  | | To | |  | | | |
| Course Leader | Ms. Naveeta | | | | | | | |
| **Declaration**  The assignment submitted herewith is a result of my own investigations and that I have conformed to the guidelines against plagiarism as laid out in the Student Handbook. All sections of the text and results, which have been obtained from other sources, are fully referenced. I understand that cheating and plagiarism constitute a breach of University regulations and will be dealt with accordingly. | | | | | | | | |
| Signature of the Student | |  | | | | | Date |  |
| Submission date stamp  (by Examination & Assessment Section) | |  | | | | | | |
| Signature of the Course Leader and date | | | | Signature of the Reviewer and date | | | | |
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| **Assignment** | | | | |  | | | |
| Register No. | | | 18ETCS002121 | Name of Student |  | SUBHENDU MAJI | | |
|  |  | **Marking Scheme** | | |  | |  |  |
|  | QA.1 | Illustration of how C programmers manually and explicitly free memory | | | 01 | |  |  |
| QA.2 | Illustration of how Java programmers rely on the Garbage Collector | | | 01 | |  |  |
| QA.3 | Comparison of the manual and the automated approaches | | | 02 | |  |  |
| QA.4 | The stance taken with justification. | | | 02 | |  |  |
|  | **Part A Max Marks** | | | **6** | |  |  |
|  | QB.1 | Introduction to an Airline reservation system | | | 01 | |  |  |
| QB.2 to QB.8 | Design of the Airline reservation system | | | 05 | |  |  |
| QB.9 | Implementation of the Airline reservation system | | | 06 | |  |  |
|  | QB.10 | Demonstration of the Airline reservation system | | | 02 | |  |  |
|  | **Part B: Max Marks** | | | **14** | |  |  |
|  | **Total Assignment Marks** | | | | **20** | |  |  |

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| **Course Marks Tabulation** | | | | |
| **Component- 1(B) Assignment** | **First**  **Examiner** | **Remarks** | **Moderator** | **Remarks** |
| Q1 |  |  |  |  |
| Q2 |  |  |  |  |
| **Marks (out of 20 )** |  |  |  |  |
| Signature of First Examiner Signature of Second Examiner | | | | |

# **Question No. 1**

**Solution to Question No. 1:**

## A1.1 Illustration of how C programmers manually and explicitly free memory

## A1.2 Illustration of how Java programmers rely on the Garbage Collector

## A1.3 Comparison of the manual and the automated approaches

## A1.4 The stance taken with justification

# **Question No. 2**

**Solution to Question No. 2:**

## B1.1 Introduction to an Airline reservation system

## B1.2 Design of the Airline reservation system

## B1.3 Implementation of the Airline reservation system

# Bibliography