# Core Java Assessment 2: Collections

Attempt any 4 questions. Each carries 5 marks for the implementation

Q1) Store the data in a collection:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RollNo | Name | Department | Address | DateOfBirth |
| 101 | Suresh | CSE | DHARAMPURI | 26/12/1956 |
| 103 | Ariyu | AE | TRICHY | 23/02/1956 |
| 104 | Muthu | ECE | ARIYALUR | 4/11/1944 |
| 105 | Mani | EEE | KOVAI | 16/12/1944 |
| 106 | Tamil | CSE | TRICHY | 6/02/1956 |
| 107 | Raja | IT | TANJUR | 16/10/1976 |
| 105 | Mani | EEE | KOVAI | 16/12/1944 |
| 108 | SHYAM | EEE | MANIPUR | 11/11/1976 |
| 109 | RAJ |  |  |  |
| 110 | Suresh | AE | Chennai | 11/10/1985 |
| 111 | ROHIT |  |  |  |
| 112 | BONY |  |  |  |
| 113 |  |  |  |  |

2) Store data in a collection which should print data without any duplicates:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RollNo | Name | Department | Address | DateOfBirth |
| 101 | Suresh | CSE | DHARAMPURI | 26/12/1956 |
| 103 | Ariyu | AE | TRICHY | 23/02/1956 |
| 104 | Muthu | ECE | ARIYALUR | 4/11/1944 |
| 105 | Mani | EEE | KOVAI | 16/12/1944 |
| 106 | Tamil | CSE | TRICHY | 6/02/1956 |
| 107 | Raja | IT | TANJUR | 16/10/1976 |
| 108 | SHYAM | EEE | MANIPUR | 11/11/1976 |
| 109 | RAJ |  |  |  |
| 110 |  |  |  |  |
| 111 | ROHIT |  |  |  |
| 112 | BONY |  |  |  |
| 113 |  |  |  |  |

Since 105 is a duplicate record, this should not be displayed twice

3) Store data in a collection which should return records in the ascending order of name

4) Store data in a collection such that it should return records with name not null. 105 though duplicate should be returned.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| RollNo | Name | Department | Address | DateOfBirth |
| 101 | Suresh | CSE | DHARAMPURI | 26/12/1956 |
| 103 | Ariyu | AE | TRICHY | 23/02/1956 |
| 104 | Muthu | ECE | ARIYALUR | 4/11/1944 |
| 105 | Mani | EEE | KOVAI | 16/12/1944 |
| 106 | Tamil | CSE | TRICHY | 6/02/1956 |
| 107 | Raja | IT | TANJUR | 16/10/1976 |
| 105 | Mani | EEE | KOVAI | 16/12/1944 |
| 108 | SHYAM | EEE | MANIPUR | 11/11/1976 |
| 109 | RAJ |  |  |  |
| 111 | ROHIT |  |  |  |
| 112 | BONY |  |  |  |

5) Store data in a collection such that records could be retrieved corresponding to the rollNumber (key: rollNumber) and it should return records in ascending order of name.