Q1. Design an application to create a multithreaded program implementing Runnable.The functionalities need to be implemented are:

i) Create MyTask class which imple ments Runnable and overrides run() method.

ii) in run method T1 (thread1) will print numbers from 1to 51 and T2 (thread2) will print numbers from 51to 100 .

iii) Create a class Client with main method and create two thread and start them.

Note: second thread should start only when first thread has completed the task.

Marks: 10

Q2. Design an application to accept multiple employee details and store all employee objects in a ArrayList. The functionalities need to be implemented are:

i) Create Employee class will have empId, firstName, lastName, dateofJoining, salary

ii) Create a class EmploeeClient with main method and Add employee details to ArrayList.

iii) Sort the employee details based on salary and display it in the main method.

Note: Use generics and Comparable/comparator interface.

Marks: 10

Q3. Design an application to accept multiple employee details and persist the employee object in a file emp.dat. The functionalities need to be implemented are:

i) Create Employee class will have empId, firstName, lastName, dateofJoining, salary.

ii) Create a class EmployeeClient with main method and accept employee details from user using scanner and create Employee object.

iii) Now write the code to persist the employee object in the file emp.dat

iv) Now write the code to read the persisted employee object from the file emp.dat

Note: Use Object Serialization

Marks: 10