1. Identify a simple mini-project idea and write down its title e.g. “Bank Deposit and Withdrawal Application” (1 mark)

Solution: E-loop Online Banking Application

1. Assuming the above project requires user registration, design an GUI using JavaFX containing all the relevant fields and buttons that are necessary for user registration e.g. Names, Age (With Date Dropdowns), Phone Number, Account Number etcetera (The more creative you are in designing look and feel such as colors, nice buttons, having a demo logo, presentable background etcetera, the more marks) (9 Marks)
2. <https://github.com/Gikunju-727/OOP-Java/upload/master>
3. 4. Discuss any FOUR points on why we are focusing on building Distributed Applications in Advanced OOP, why is this Important and what are the advantages? (4 Marks)

* All the nodes in the distributed system are connected to each other. So nodes can easily share data with other nodes.
* More nodes can easily be added to the distributed system i.e. it can be scaled as required.
* Failure of one node does not lead to the failure of the entire distributed system. Other nodes can still communicate with each other.
* Resources like printers can be shared with multiple nodes rather than being restricted to just one. Reducing cost of acquiring more of the resources.