Ajmera Infotech Interview

- There is basically the first task to create the database and connect it to our java code.
- Java provides its inbuilt database Java DB which we can use for the task.

Creating Project

- Inside Netbeans IDE we can create a project and for the JDBC connection we need to add JDBC driver into our code. We can do it by Project-> Library -> right click on it and then select the add Library
    - Among the list of library provided to us we will use JDBC driver.
- Next Step is to start the server port which will we used for communication with Java DB.
- In Services-> Databases, all the databases present on the system will be displayed
- Right click on the **Java DB and start server.**

Create Database:

- Next create a database. It will ask us for the db name user and password .
- After creating the database we will need to create the table.

Table Name : Bank

Account type (String) Saving / Checking	Transaction Date (String)	Card Used(String)	Amont(Number)

There will be two integer variables which will initially store the initial balance in both the accounts.

Then We will take user input to store all the transactions in the table.

There will be a do while loop with choices included.

- **Class.forName(org.apache.derb.jdbc.ClientDriver)**
- **Connection con = DriverManager.getConnection(db url, username, password);**

```
int choice = 0;
int Saving = 10000;
int Checking = 10000;
Do{
//Create a prepared statement
```

```
Prepared St = con.createPreparedStatemnet("INSERT INTO Bank values (?,?,?,?)");

   System.out.println("Select the account type : 1. Saving 2. Checking " );
   int c = sc.nextInt();
   String actype = c==1 ? "Saving" : "Checking";

   System.out.println("Which card u will use? 1. Debit  2. Credit " );
   int c2 = sc.nextInt();
   String cardtype = c2==1 ? "Debit" : "Credit";


// C = Act type 1 2 C2 = card type 1 2  c3 = In/ out 0 1
   System.out.println("Amoutn In: 0 Out : 1"  );
   int c3 = sc.nextInt();

   System.out.println("Emter Amount");
   int amount = sc.nextInt();

   if(c==1 && Saving < Amount && c3 = 1)
   {
      System.out.println("Not Sufficeint FUnds");
      continue;
   }

if(c==2 && Checking < Amount && c3 = 1)
   {
      System.out.println("Not Sufficeint FUnds");
      continue;
   }


   if(c3==0){
      if(c==1)
         Saving += Amount
      else
         Checking += Amount;
    }
   else{
      if(c==1)
         Saving - Amount
      else
         Checking -= Amount;
```

```
   }

      System.out.println("Enter Date : ");
      String date = sc.next();

//After all the inputs are received we can put that into the database;
//First fill the ? terms in statement

St.setString(1,actype);
St.setString(2,cardtype);
St.setInt(3,Amount);;
St.setString(4,date);

After execute the query.
if(st.executeUpdate()==1)
        SOP("Data Entered");

SOP(For Exit Enter 2 Continue 1);
Choice  = st.nextInt();

}while(choice!=2);


//All the data will be stored in the table so we can retrieve that usign resultset and a select query

//display format
//Date Card Amount
Statement st = con.createStatement("Select * from Bank Where CardType = "Credit");
ResultSet rs = st.executeQuery();

//Iterate through all the  result rows

while(rs.next()){
        SOP(rs.getStirng(2) + "\t" + rs.getString(3) + "\t" + String.valueOf(rs,getInt(4)0);
        //SOP  = System.out.println

}


//Same for the Card Type Debit
Statement st2 = con.createStatement("Select * from Bank Where CardType = "Debit");
ResultSet rs2 = st2.executeQuery();
```

```
//Iterate through all the  result rows

while(rs.next()){
        SOP(rs.getStirng(2) + “\t” + rs.getString(3) + “\t” + String.valueOf(rs,getInt(4)0);
        //SOP  = System.out.println

}


///Print Final Amounts

SOP(“SAVING BALANCE: “  + Saving);
SOP(“Checking Balance : “ + Checking);


con.close();
Close the connection
}//End of code
```