**Java Assessment-1**

**Question Objective:**

* To build a CLI java JDBC application
  + Using Collections and JDBC concepts
* Writing validation code
* Create a pipeline with Jenkins

1. Read contents of a table from mysql database namely employee assume that it contains following columns Id, name, gender, dob, mobile, email

(Create & Insert sample data to the table if table is not present) (10 marks)

1. From the given file content, the valid records should be stored in appropriate Collection (10 marks)
2. Ensure duplicates are not kept (5 marks)
3. Create a program to do the CRUD operation on the given table. Display the content of table after each operation (10 marks)
4. Create appropriate test cases to handle the scenarios (10 marks)
5. Create a Jenkins pipeline for building the application (5 marks)

CREATE TABLE `sapient`.`employee` (

`id` INT NOT NULL AUTO\_INCREMENT,

`name` VARCHAR(150) NULL,

`gender` VARCHAR(1) NULL,

`dob` DATE NULL,

`email` VARCHAR(150) NULL,

`mobile` BIGINT(10) NULL,

PRIMARY KEY (`id`));

INSERT INTO `sapient`.`employee` (`id`, `name`, `gender`, `dob`, `email`, `mobile`) VALUES ('101', 'Bill Gates', 'M', '1975-04-21', 'billgates@windows.com', '8909786756');

INSERT INTO `sapient`.`employee` (`id`, `name`, `gender`, `dob`, `email`, `mobile`) VALUES ('102', 'James Ghosling', 'M', '1965-09-14', 'james@sun.com', '7898789867');

INSERT INTO `sapient`.`employee` (`id`, `name`, `gender`, `dob`, `email`, `mobile`) VALUES ('103', 'Elon Musk', 'M', '1971-08-15', 'elon@spacex.com', '9089098978');