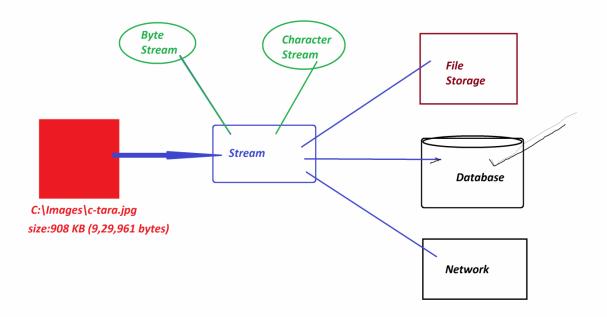
Dt: 11/3/2025
Assignmnet:
DB Table : Employee72(eid,ename,edesg,bsal,hra,da,totsal)
Primary Key : eid
Construct JDBC Application to perform the following Operations based on Choice:
1.AddEmployee
2. View All Employees
3.ViewEmployeeByCode
4.UpdateEmployeeById(bSal)
5.DeleteEmployeeById
6.Exit
Calcutions:
hra = 91% of bSal
da = 63% of bSal
totSal = bSal+hra+da
Exception:
=>Min bSal must be 12000/-,else raise the exception



*imp

Streams with Database product:

define stream?(Normal definition)

=>The continuous flow of data is known as stream.

Types of streams:

- =>Java language support two types of streams:
 - 1.Byte Stream(Binary Stream)
 - 2.Character Stream
- 1.Byte Stream(Binary Stream):
 - =>The continuous flow of data in the form of 8-bits is known as Byte Stream or Binary

Stream.
=>Through Byte Stream we can send all Multi-Media data formats, which means Text, Audio
Video,Image and Animation.
2.Character Stream:
=>The Continuous flow of data in the form of 16-bits is known as Character Stream or
Text Stream.
=>Character Stream is preferable for Text data,and which is not preferable for Audio,
Video,Image and Animation data.
=>We use the following SQL-Types to store Stream data:
(a)BLOB
(b)CLOB
(a)BLOB:
=>BLOB stands for 'Binary Large OBjects' and which is used to store Byte Stream data.
(b)CLOB:
=>CLOB stands for 'Character Large OBjects' and which is used to store Character Stream
data.
*imp
Storing Stream data to Database product:
Step-1 : Create DB Table with name StreamTab72(id,name,mfile)
create table StreamTab72(id varchar2(10),name varchar2(15),mfile BLOB,primary key(id));

```
Program: DBCon9.java
package test;
import java.util.*;
import java.io.*;
import java.sql.*;
public class DBCon9
{
      public static void main(String[] args)
       Scanner s = new Scanner(System.in);
       try(s;){
        Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection
      ("jdbc:oracle:thin:@localhost:1521:xe", "system", "tiger");
            PreparedStatement ps = con.prepareStatement
                             ("insert into StreamTab72 values(?,?,?)");
            System.out.println("Enter the User-Id:");
            String id = s.nextLine();
            System.out.println("Enter the User-Name:");
            String name = s.nextLine();
            System.out.println("Enter the Location(fPath&fName) of User-
Image(Source)");
            String path = s.nextLine();
            File f = new File(path);
            if(f.exists()) {
                  FileInputStream fis = new FileInputStream(path);
                  ps.setString(1,id);
                  ps.setString(2,name);
                  ps.setBinaryStream(3, fis, f.length());
                  int k = ps.executeUpdate();
                  if(k>0) {
                        System.out.println("Image Stored Successfully...");
                  }
                  fis.close();
            }else {
                  System.out.println("Invalid fPath or fName....");
            }
            con.close();
       }catch(Exception e) {
         e.printStackTrace();
       }
      }
```

}

o/p:

Enter the User-Id:

A121

Enter the User-Name:

Alex

Enter the Location(fPath&fName) of User-Image(Source)

C:\Images\c-tara.jpg

Image Stored Successfully...

Diagram:

