**1번**

**import** java.sql.\*;

**public** **class** Titanic {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String url = "jdbc:sqlserver://210.115.229.77:2433;";

String query = "Select Embarked, Survived, Age from DBTitanic where Survived = 1";

String s = "S"; String c = "C"; String q = "Q";

**int** counts = 0; **int** countc = 0; **int** countq = 0;

**double** sums = 0; **double** sumc = 0; **double** sumq = 0;

Connection con = **null**;

Statement stmt = **null**;

**try** {

con = DriverManager.*getConnection*(url, "20145165", "s145165@Hallym");

stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(query);

**while** (rs.next()) {

String Em = rs.getString(1);

String Age = rs.getString(3);

**if** (!Age.equals("null")) {

**double** ag = Double.*parseDouble*(Age);

**if** (s.equals(Em)) {

counts += 1;

sums += ag;

} **else** **if** (c.equals(Em)) {

countc += 1;

sumc += ag;

} **else** **if** (q.equals(Em)) {

countq += 1;

sumq += ag;

}

}

}

System.***out***.println("사는곳 : S -> 평균 나이: " + sums/counts);

System.***out***.println("사는곳 : C -> 평균 나이: " + sumc/countc);

System.***out***.println("사는곳 : Q -> 평균 나이: " + sumq/countq);

rs.close();

stmt.close();

con.close();

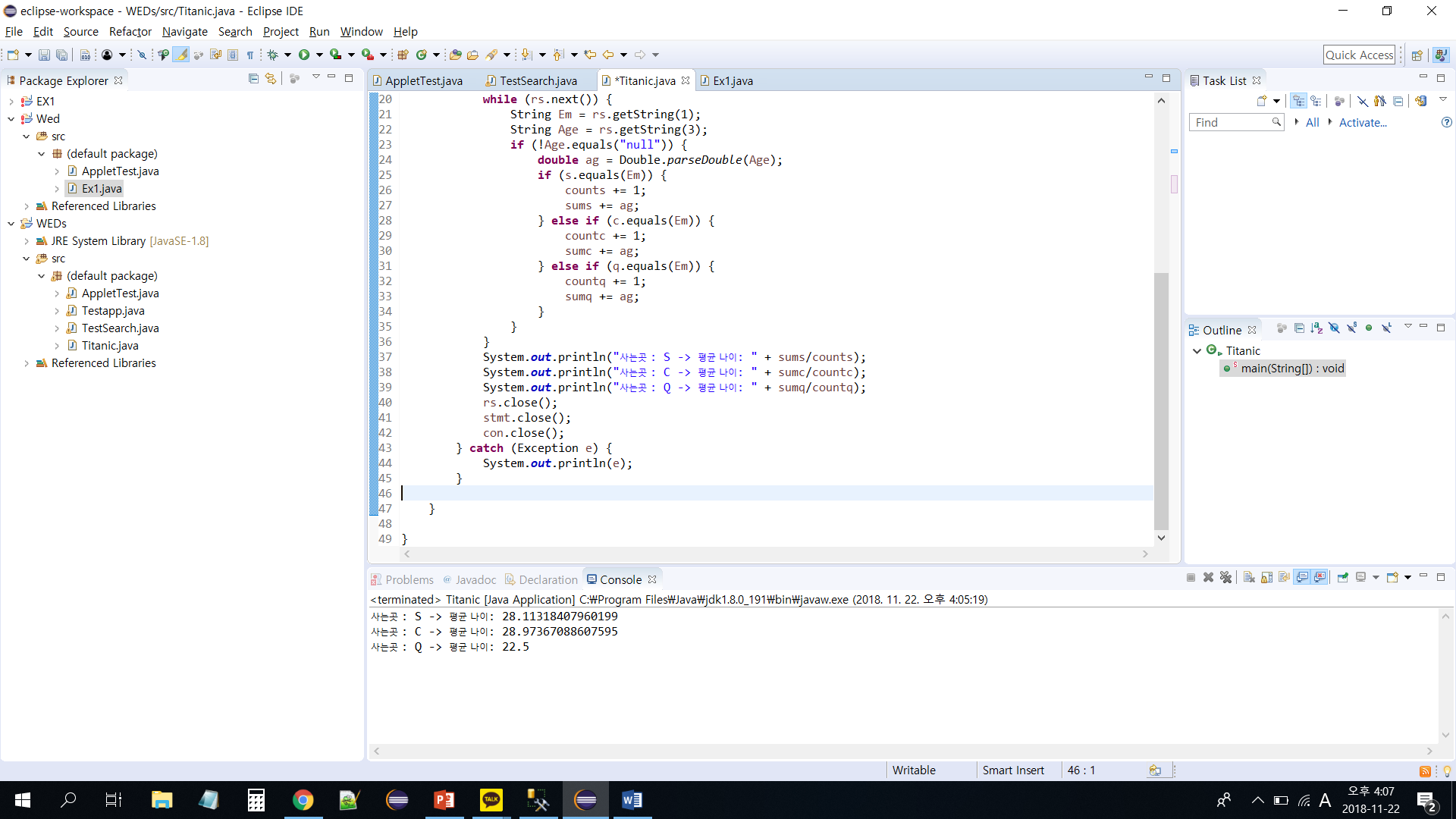
} **catch** (Exception e) {

System.***out***.println(e);

}

}

}



2번

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.Statement;

**public** **class** Titanic2 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String url = "jdbc:sqlserver://210.115.229.77:2433;";

String query = "Select Survived, Sex, Age from DBTitanic where Survived = 1";

**int** count = 0;

**double** age = 0;

Connection con = **null**;

Statement stmt = **null**;

**try** {

con = DriverManager.*getConnection*(url, "20145165", "s145165@Hallym");

stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(query);

**while** (rs.next()) {

String sex = rs.getString(2);

String Age = rs.getString(3);

**if** (sex.equals("female")) {

count+=1;

**if**(!Age.equals("null")) {

**double** ag = Double.*parseDouble*(Age);

age +=ag;

}

}

}

System.***out***.println("여성의 수 : "+ count +" 평균 나이: " + age/count);

rs.close();

stmt.close();

con.close();

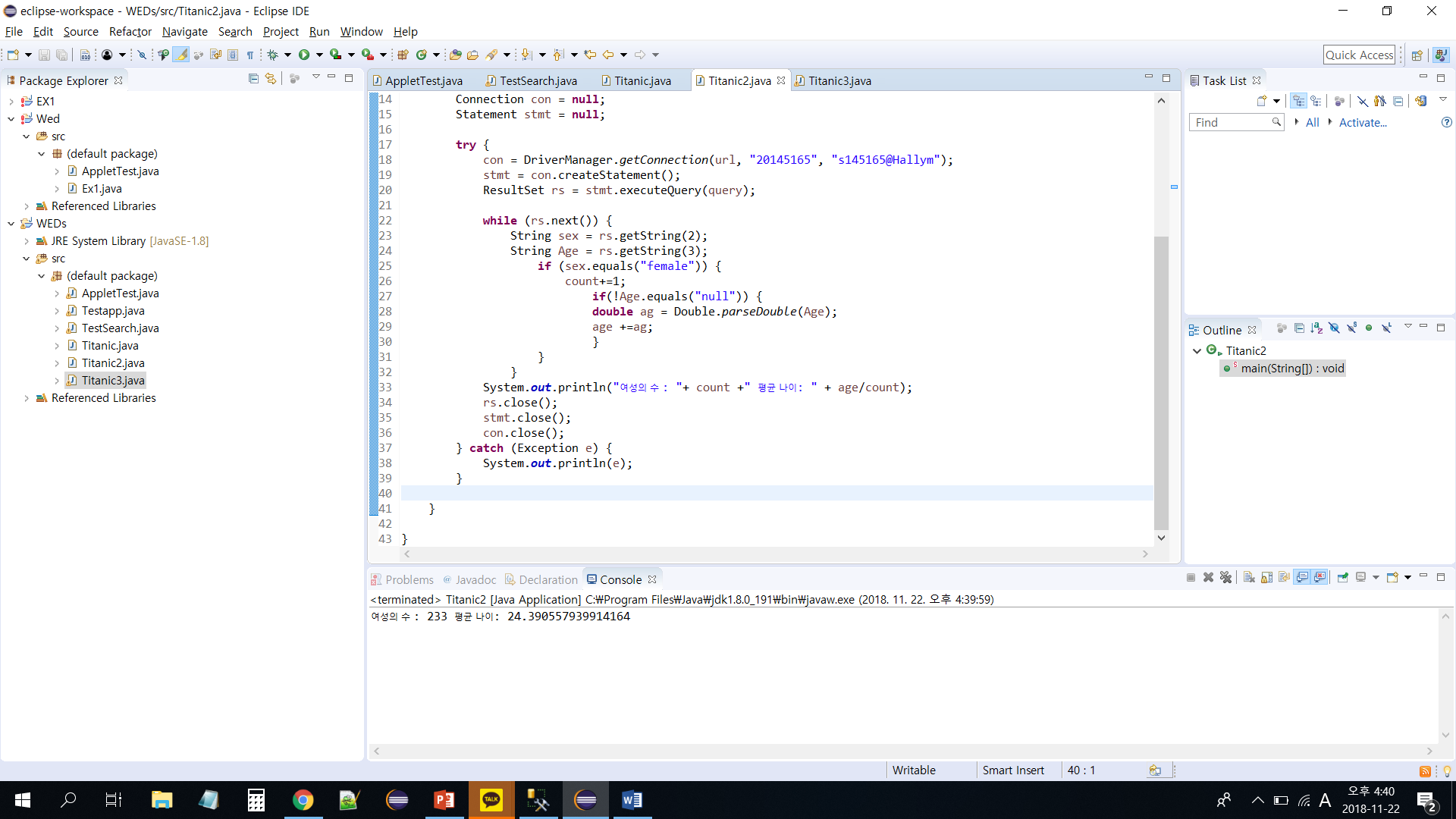
} **catch** (Exception e) {

System.***out***.println(e);

}

}

}



3번

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.Statement;

**public** **class** Titanic3 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String url = "jdbc:sqlserver://210.115.229.77:2433;";

String query = "Select Pclass, Survived from DBTitanic where Survived = 1";

**double** total=0; **double** count=0;

Connection con = **null**;

Statement stmt = **null**;

**try** {

con = DriverManager.*getConnection*(url, "20145165", "s145165@Hallym");

stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(query);

**while** (rs.next()) {

String Pclass = rs.getString(1);

String Su = rs.getString(2);

**if** (Pclass.equals("1")) {

count+=1;

}

total+=1;

}

System.***out***.println("1등급 선실에 탑승한 인원이 전체 생존자 중 " + (count/total)\*100+"% 입니다.");

rs.close();

stmt.close();

con.close();

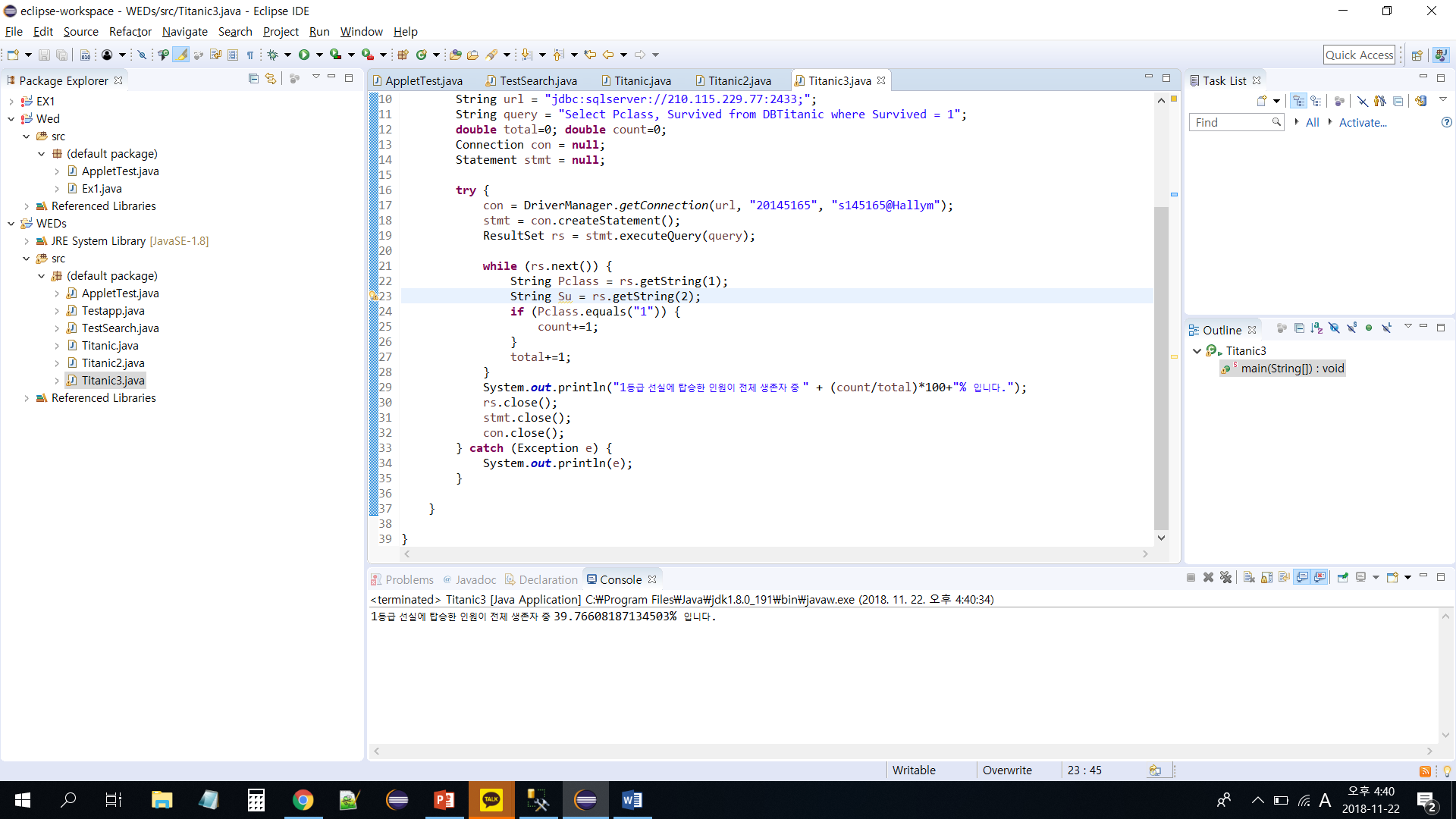
} **catch** (Exception e) {

System.***out***.println(e);

}

}

}



과제 1번

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.Statement;

**public** **class** Titanic4 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String url = "jdbc:sqlserver://210.115.229.77:2433;";

String query = "Select Sex, Survived from DBTitanic where Survived = 0";

**int** total=0; **double** male=0; **double** female = 0;

Connection con = **null**;

Statement stmt = **null**;

**try** {

con = DriverManager.*getConnection*(url, "20145165", "s145165@Hallym");

stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(query);

**while** (rs.next()) {

String Sex = rs.getString(1);

String Su = rs.getString(2);

total +=1;

**if** (Sex.equals("male")) {

male +=1;

}**else** {

female +=1;

}

}

System.***out***.println("전체 사망자 수: " +total +"입니다.");

System.***out***.println("그중 남성은 : "+(male/total)\*100+"%입니다.");

System.***out***.println("그중 여성은 : "+(female/total)\*100+"%입니다.");

rs.close();

stmt.close();

con.close();

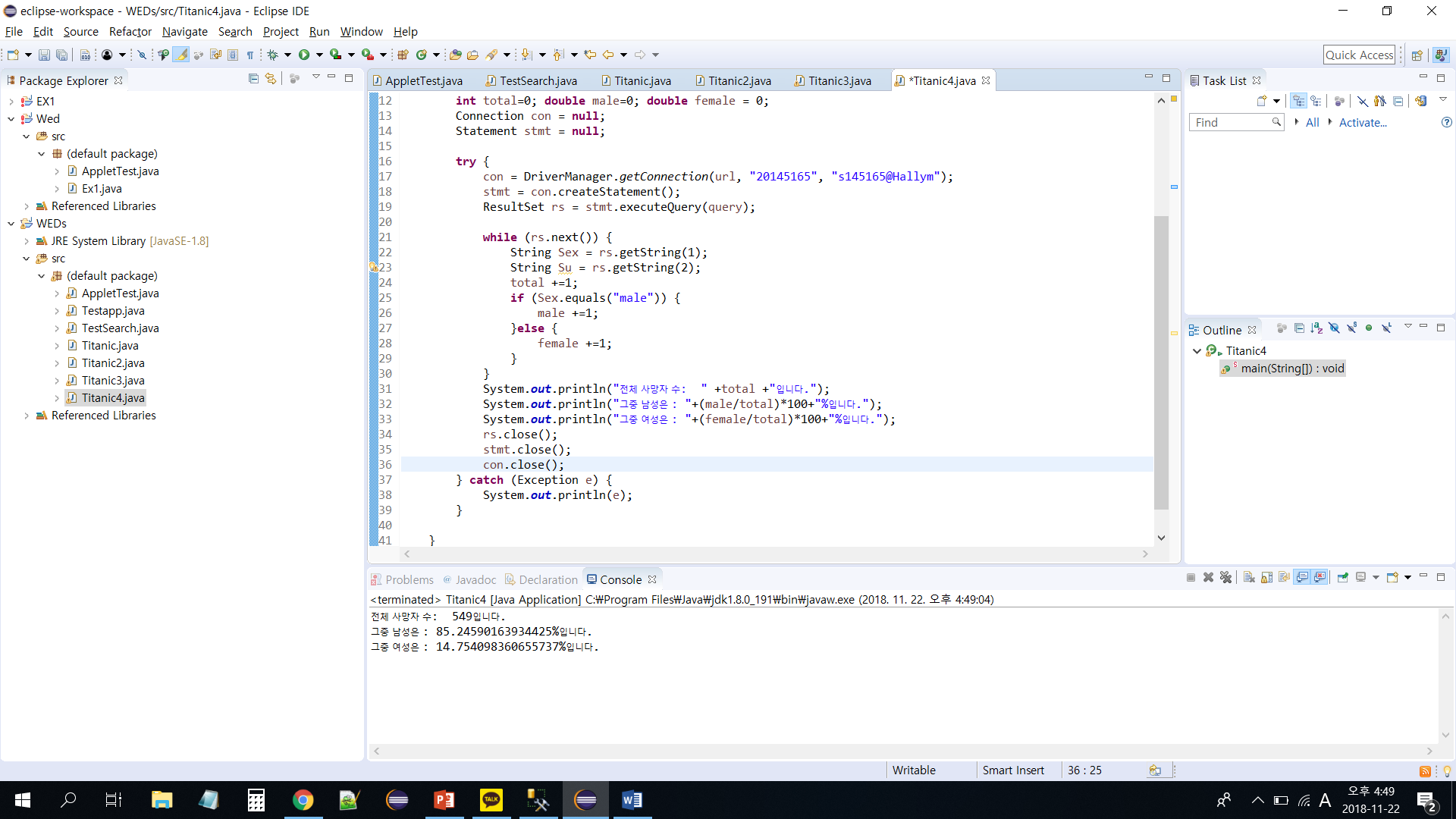
} **catch** (Exception e) {

System.***out***.println(e);

}

}

}



과제 2번

import java.sql.\*;

import java.io.\*;

public class Titanic5 {

public static void main(String[] args) throws IOException {

String url = "jdbc:inetdae7://210.115.229.77:2433"; //Microsoft SQL/Server용 Inet Software JDBC 드라이버

String user = "20145165"; // ID

String pass = "s145165@Hallym"; // password

try {

// db연결을 위한 객체 선언 및 초기화

Connection con = null; //Connection 객체로 부터 쿼리를 수행하기 위한 PreparedStatement 객체를 받는다.

Statement stmt1 = null; //쿼리를 보내기 위해 사용되는 객체

BufferedWriter bw = new BufferedWriter(new FileWriter(new File("reuslt.txt"))); //파일 생성

con = DriverManager.getConnection(url, user, pass);

con.setCatalog("20145165");

stmt1 = con.createStatement();

int count = 0; //사망자 수를 확인하기 위한 변수

ResultSet result = stmt1.executeQuery("SELECT \* from titanic where Survived = '" + 0 + "'");

while (result.next()) {

String id = result.getString(1);

String surv = result.getString(2);

String pclass = result.getString(3);

String name = result.getString(4);

String sex = result.getString(5);

String age = result.getString(6);

String sibsp = result.getString(7);

String parch = result.getString(8);

String ticket = result.getString(9);

String fare = result.getString(10);

String cabin = result.getString(11);

String embark = result.getString(12);

if (age.equals("null")) { //null이면 무시

continue;

}

else if(Double.parseDouble(age) <= 20) {

count++;

String data = id+" "+surv+" "+pclass+" "+name+" "+sex+" "+age+" "+sibsp+" "+parch+" "+ticket+" "+" "+fare+" "+cabin+" "+embark;

bw.write(data);

bw.newLine();

}

}

System.out.println("만 20세 이하 사망자 수 : "+count);

bw.close();

con.close();

stmt1.close();

} catch (Exception e) {

System.out.println(e);

}

}

}