

# 2024\_JUL\_sol

## Θέμα 1

rent.html

```
<html>
<form action="rent.jsp" method="post">
    AFM: <input type="number" id="afm" /> Days:
    <input type="number" id="days" /> KM: <input type="number" id="km" />
    <button type="submit">Submit</button>
</form>
</html>
```

error.html

```
<html>
    Οι ημέρες και τα χιλιόμετρα πρέπει να είναι αριθμοί με τιμές
    μεγαλύτερες το 0.
    <a href="rent.html">link</a>
</html>
```

rent.jsp

```
<%@ page contentType="text/html; charset=UTF-8" %>
<%@ page import="java.io.*, java.util.*" %>
<%
    String afm = request.getParameter("afm");
    String days = request.getParameter("days");
    String km = request.getParameter("km");
    int n_days;

    try {
        n_days = Integer.parseInt(days);
    } catch (Exception e) {
        response.sendRedirect("error.html");
        return;
    }

    String kmMatch = "\d+(\.\d+)?";
    if (km == null || !km.matches(kmMatch)) {
        response.sendRedirect("error.html");
        return;
    }
%>
```

```

}

double k;
try {
    k = Double.parseDouble(km);
} catch (Exception e) {
    response.sendRedirect("error.html");
    return;
}

if (k < 0 || n_days < 0) {
    response.sendRedirect("error.html");
    return;
}

double cost = 0;
if (k < 300) {
    cost = k * 1.2;
} else if (k < 1200) {
    cost = k * 1.5;
} else {
    cost = k * 1.8;
}

double vat = cost * 0.24;
double kostosEn = (n_days * 40) + cost;
double asfalish = kostosEn * 0.125;
double total_cost = 20 + kostosEn + vat + asfalish;

String fileName = afm + ".txt";
try (FileWriter w = new FileWriter(fileName)) {
    w.write("<afm>" + afm + "</afm>\n");
    w.write("<days>" + days + "</days>\n");
    w.write("<km>" + km + "</km>\n");
    w.write("<fpa>" + vat + "</fpa>\n");
    w.write("<ins>" + asfalish + "</ins>\n");
    w.write("<reg>" + 20 + "</reg>\n");
    w.close();
} catch (IOException e) {
    response.sendRedirect("diskerror.html");
    return;
}
%>
<!DOCTYPE html>
<html>
<head>
    <title>Rent Cost</title>
</head>
<body>
    <p>Κόστος ενοικίασης: <%= kostosEn %> </p>

```

```

<p>ΦΠΑ: <%= vat %></p>
<p>Ασφάλιση: <%= asfalish %></p>
<p>Εγγραφή: 20</p>
<p>Τελικό κόστος: <%= total_cost %></p>
<a href="rent.html">Επιστροφή στην rent.html</a>
</body>
</html>

```

## Θέμα 2

```

import java.util.*;

public class ChangeOrder extends Thread {

    public class DisplayLetter extends ChangeOrder {

        private String name;
        private int num;

        public DisplayLetter(String name, int num) {
            this.name = name;
            this.num = num;
        }

        @Override
        public void run() {
            System.out.println(name);
            System.out.println(num);
        }
    }

    public static void main(String[] args) {
        Thread t1 = new DisplayLetter("45asaaa", 12);
        Thread t2 = new DisplayLetter("222kkww", 45);
        t1.start();
        t2.start();
    }
}

```

## Θέμα 3

```

public static void main(String[] args) {
    t1.start();
    t2.start();
    try {
        t2.join(12000);
    } catch (InterruptedException e) {

```

```
    e.printStackTrace();
}
if (t2.isAlive()) {
    t2.interrupt();
}
}
```