

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("45asaa", 12);
        Thread t2 = new DisplayLetter("222kww", 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();
    }
}
```