VU LEARNING HUB

CS201 Assignment 1 Solution

Fall 2026

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```
#include <iostream>
using namespace std;

int main() {
    int vuId = 270388599;
    cout << "Student Name: VU Learning Hub" << endl;
    cout << "Student ID  : BC270388599" << endl;
    cout << endl;
    int digit2 = (vuId / 10000000) % 10;
    int digit4 = (vuId / 100000) % 10;
    int digit5 = (vuId / 10000) % 10;
    int digit6 = (vuId / 1000) % 10;
    int digit8 = (vuId / 10) % 10;
    cout << "Extracted digits: " << digit2 << ", " << digit4 << ", ";
    cout << digit5 << ", " << digit6 << ", " << digit8 << endl;
    cout << endl;
    int light = 0;
    int moderate = 0;
    int heavy = 0;
    cout << "------ University IT Helpdesk Workload Report ------" << endl;
    cout << "--------------------------------------------------" << endl;
    cout << "Unit                  Total Tickets  Resolution Time  Status" << endl;
    cout << "--------------------------------------------------" << endl;
    cout << "Network Support:      " << digit2 << "              " << digit2 * 20 << "
    if (digit2 >= 7) {
        cout << "HEAVY";
        heavy++;
    } else if (digit2 >= 4) {
        cout << "MODERATE";
        moderate++;
    } else {
        cout << "LIGHT";
        light++;
    }
    cout << endl;
    cout << "Computer Lab Support: " << digit4 << "              " << digit4 * 20 << "
    if (digit4 >= 7) {
        cout << "HEAVY";
        heavy++;
    } else if (digit4 >= 4) {
        cout << "MODERATE";
        moderate++;
    } else {
        cout << "LIGHT";
        light++;
    }
    cout << endl;
    cout << "LMS Support:          " << digit5 << "              " << digit5 * 20 << "
    if (digit5 >= 7) {
        cout << "HEAVY";
```

```
        heavy++;
    } else if (digit5 >= 4) {
        cout << "MODERATE";
        moderate++;
    } else {
        cout << "LIGHT";
        light++;
    }
    cout << endl;
    cout << "Account Support:      " << digit6 << "               " << digit6 * 20 << "
    if (digit6 >= 7) {
        cout << "HEAVY";
        heavy++;
    } else if (digit6 >= 4) {
        cout << "MODERATE";
        moderate++;
    } else {
        cout << "LIGHT";
        light++;
    }
    cout << endl;
    cout << "Hardware Support:     " << digit8 << "               " << digit8 * 20 << "
    if (digit8 >= 7) {
        cout << "HEAVY";
        heavy++;
    } else if (digit8 >= 4) {
        cout << "MODERATE";
        moderate++;
    } else {
        cout << "LIGHT";
        light++;
    }
    cout << endl;
    cout << "-------------------------------------------------" << endl;
    cout << "===== SUMMARY =====" << endl;
    cout << "LIGHT desks   : " << light << endl;
    cout << "MODERATE desks: " << moderate << endl;
    cout << "HEAVY desks   : " << heavy << endl;
    return 0;
}
```

Student Name: VU Learning Hub
Student ID : BC270388599

Extracted digits: 7, 3, 8, 8, 9

------ University IT Helpdesk Workload Report ------

Unit   Total Tickets Resolution Time Status

Network Support: 7   140   HEAVY
Computer Lab Support: 3   60   LIGHT
LMS Support: 8   160   HEAVY
Account Support: 8   160   HEAVY
Hardware Support: 9   180   HEAVY

===== SUMMARY =====
LIGHT desks   : 1
MODERATE desks: 0
HEAVY desks   : 4