EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

# Department of Computer Engineering



# COMP218

OBJECT-ORIENTED PROGRAMMING

## Lab Work No. 2

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### Task (1)

a.

#include <iostream>

using namespace std;

int main(){

float arr[5];

float result = 0;

cout << "Enter five values" << endl;

for (int i = 0; i < 5; i++){

cin >> arr[i];

}

for (int i = 0; i < 5; i++){

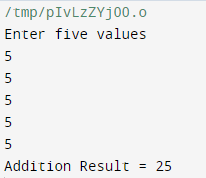
result += arr[i];

}

cout << "Addition Result = " << result << endl;

return 0;

}



b.

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

    int values[5] = {0};

    int smallest;

    cout << "Enter 5 integers, the program will find the smallest." << endl;

    for (size\_t i = 0; i < 5; i++)

    {

        cout << "Value " << i + 1 << ": ";

        cin >> values[i];

    }

    smallest = values[0];

    for (size\_t i = 1; i < 5; i++)

    {

        if ( values[i] < smallest )

        {

            smallest = values[i];

        }

    }

    cout << "The smallest value is: " << smallest << endl;

    return 0;

}

c.

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

    int m, n, ans = 1;

    cout << "Enter a base: ";

    cin >> n;

    cout << "Enter a exponent: ";

    cin >> m;

    for (size\_t i = 0; i < m; i++)

    {

        ans = ans \* n;

    }

    cout << n << " to the power " << m << " is: " << ans;

    return 0;

}

### Task (2)

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

    int input, a, b, ans;

    cout << "-------------" << endl;

    cout << "PROGRAM MENU" << endl;

    cout << "-------------" << endl;

    cout << "1. Add" << endl << "2. Subtract" << endl;

    cout << "3. Multiply" << endl << "4. Quit" << endl;

    cout << "-------------" << endl;

    cout << "INPUT: ";

    cin >> input;

    cout << "-------------" << endl;

    if ( input < 4 )

    {

        cout << "Enter first value: ";

        cin >> a;

        cout << "Enter second value: ";

        cin >> b;

    }

    switch ( input )

    {

    case 1:

        ans = a + b;

        cout << a << " + " << b << " = " << ans;

        break;

    case 2:

        ans = a - b;

        cout << a << " - " << b << " = " << ans;

        break;

    case 3:

        ans = a \* b;

        cout << a << " \* " << b << " = " << ans;

        break;

    case 4:

        cout << "QUITTING...";

        break;

    default:

        cout << "INVALID INPUT!";

        break;

    }

    return 0;

}

### Task (3)

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

    char input;

    int a, b, ans;

    cout << "-------------" << endl;

    cout << "PROGRAM MENU" << endl;

    cout << "-------------" << endl;

    cout << "Choose an operator:" << endl;

    cout << "+ Add" << endl << "- Subtract" << endl;

    cout << "\* Multiply" << endl << ". Quit" << endl;

    cout << "-------------" << endl;

    cout << "INPUT: ";

    cin >> input;

    cout << "-------------" << endl;

    if ( (input == '+') ||  (input == '-') ||  (input == '\*')  )

    {

        cout << "Enter first value: ";

        cin >> a;

        cout << "Enter second value: ";

        cin >> b;

    }

    switch ( input )

    {

    case '+':

        ans = a + b;

        cout << a << " + " << b << " = " << ans;

        break;

    case '-':

        ans = a - b;

        cout << a << " - " << b << " = " << ans;

        break;

    case '\*':

        ans = a \* b;

        cout << a << " \* " << b << " = " << ans;

        break;

    case '.':

        cout << "QUITTING...";

        break;

    default:

        cout << "INVALID INPUT!";

        break;

    }

    return 0;

}