

Lab 3 – Assignment 1

- Assignment Deadline: 22 Feb 2023, 11:59PM
- Submission: 1) a cpp file with student ID and name, 2) a screenshot of result and code

Problem: Simple calculator

- Problem description

We want to develop a calculator program to help everyone solve complicated math calculations. The program prompts a menu (as shown in the figure below) of calculations for users to choose (from 1 to 4). Then it asks the user to input one or two integers for calculation (input only one integer for Square root).

```
MENU
1. Divide, a/b
2. Multiply, a*b
3. Power, a^b
4. Square root, sqrt(a)
```

- Input & output requirements

Input one integer to choose an operation. Then input one or two integers for the selected calculation. The output should follow the format as shown in sample results.

- Sample results

Sample 1

```
MENU
1. Divide, a/b
2. Multiply, a*b
3. Power, a^b
4. Square root, sqrt(a)
Enter your choice:4
Enter a number:6
sqrt(6)=2.449
```

Sample 2

```
MENU
1. Divide, a/b
2. Multiply, a*b
3. Power, a^b
4. Square root, sqrt(a)
Enter your choice:3
Enter two numbers:2 3
2^3=8.000
```