

LAB 06: Functions

1. Scope of Knowledge:

- Understand the concept and structure of functions
- Define functions and declare function prototypes
- Call the function

2. Marterials/Softwares/Tools:

Visual Studio Code

3. Coding Convention:

- All identifiers must be in English and lower case
- Follow the valid identifers naming rules in C
- Tab is 4 characters
- Curly braces must be aligned
- Statements in curly brackets must be indented by 1 tab

4. Exercise:

Exercise 1:

Write a function body for the function prototype int power(int a, int n) that returns an (don't use the pow function in the <math.h> library). Then write a program to input from the keyboard two integers a and n using the function just written to print the result an.

Exercise 2:

Write a function body for the following function prototypes:

- int inputNumber(); // This function lets you input an integer from the keyboard and returns the integer you just entered.
- int checkNumber(int num); // This function checks that an integer is prime, it returns 1 and it's not, and it returns 0.

Write a program to input 6 numbers from the keyboard and print out all prime numbers.

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Exercise 3:

Write a function body for the following function prototype: int fibonacci(int n); Returns the number at the nth position in the fibonacci sequence.

Exercise 4:

Write a function that does the following:

• Display following menu:

- Input option from keyboard
- If input invalid options (number not in [1 5]), you must input again:

• If choose correct optin, function will return option number value (option in [1 - 5]).

Write a program that uses the above function to display the menu and select the menu as follows:

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Until you choose 5, exit the program.

