Lab1-Assignment

- ☐ Write C++ programs to ...
- 1. **Find root** of quadratic equation $ax^2+bx+c=0$. You need to study the case delta is 0, delta is greater than 0, and delta is less than 0.
- 2. Display numbers 1 to 1000 on the screen except the numbers 100, 200, 300, 400 and 500.
- 3. Ask a user to input a number. **Keep asking the user** for more numbers until the user inputs -1. Display the total summation of all input numbers except -1.
- 4. Write a **function to display** and compute this suit 1/1 + 1/2 + ... + 1/n, where n is the parameter of this function.

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- 5. Perform some mathematic operations below (also make a menu for your program so that users can test any functions. Run it as infinite loop).
 - a. A summation function to calculate the sum of first n integer 1+2+3+...+n int sumSuite(int n)
 - b. Sum digits of a number (E.g. Let n=152, then sum digits =1+5+2=8)

int sumDigit(int n)

- 6. Create a structure of person. This structure contains some information such as name, age, zodiac sign (string), of a person. Create an array that can stores person information up to 20 people. Then ...
 - Ask a user to input information for 4 people (your crushes ♥, or your best friends ☺) and store in your array
 - Display information for each person on screen.
 - Show information of the person who has the oldest age.
- 7. Get two integer numbers (x and y) from a user. Create 2 point variables, say p1 and p2. Let p1 stores the address of x and p2 stores the address of y.
 - a. Display address and value of x using p1.
 - b. Display address and value of y using p2.
- 8. Create a function that can exchange two numbers. This function takes 2 parameters of the type pointers.

void exchangeNumber(int *m, int *n)