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// Ch. 6 Worksheet #1                              Name -
// Mr. Minich

// Use copy & paste to execute this program in your C++ compiler.
// What displays after the following program executes?

#include <iostream>
#include <string>
#include <stdlib.h>      // for rand function
#include <time.h>        // for time function
using namespace std;

int mystery(int incoming);
int whatever(int firstNum, int secondNum);
void sayGoodbye(string incoming);
int getRandom();

int main()
{
    int num1 = 0;
    int total = 0;
    string userName;

    for (int i = 0; i < 5; i++)
    {
        num1 = num1 + 5;
    }

    cout << "num1 is " << num1 << endl;

    while (total < 40)
    {
        total = total + mystery(total);
    }

    cout << "total is " << total << endl;

    cout << "The returned value of the function whatever is " << whatever(num1, total) << endl;

    cout << "The function getRandom returned the value of " << getRandom() << endl;

    cout << "What is your name? ";
    cin >> userName;

    sayGoodbye(userName);

    return 0;
}// end of main

int mystery(int incoming)
{
    return (incoming + 6);
}// end of mystery

int whatever(int firstNum, int secondNum)
{
    double average = 0.0;

    average = (firstNum + secondNum) / 2;

    return average;
}// end of whatever

void sayGoodbye(string incoming)
{
    cout << "Goodbye " << incoming << "!" << endl;
}// end of sayGoodbye

int getRandom()
{
    int randomInteger = 0;

    srand(time(0));          // seeding rand function
    randomInteger = rand();
    return randomInteger;
}// end of getRandom
```