## Practice questions v7: local/global variables and Functions

1. Find the output of the following programs without running them on the compiler. Dry run on paper and then cross check your output with the one that compiler gave.

```
#include <iostream>
using namespace std;
char mystery(int first_par, int second_par);
int main()
{
        cout << mystery(10, 9) << "ow\n";
        return 0;
}
char mystery(int first_par, int second_par)
{
        if (first_par >= second_par)
        return 'W';
        else
        return 'H';
}
```

- 2. Write a function declaration and a function definition for a function that takes three arguments, all of type *int*, and that returns the sum of its three arguments.
- 3. Write a function declaration and a function definition for a function that takes one argument of type *int* and one argument of type *double*, and that returns a value of type *double* that is the average of the two arguments.
- 4. Write a function declaration and a function definition for a function that takes one argument of type *double*. The function returns the character value 'P' if its argument is positive and returns 'N' if its argument is zero or negative.
- 5. Write a function definition for a function called in\_order that takes three arguments of type *int*. The function returns *true* if the three arguments are in ascending order; otherwise, it returns *false*. For example, in\_order(1, 2, 3) and in\_order(1, 2, 2) both return *true*, while in order(1, 3, 2) returns *false*.
- 6. Write a function definition for a function called even that takes one argument of type *int* and returns a *bool* value. The function returns *true* if its one argument is an even number; otherwise, it returns *false*.
- 7. Write a function definition for a function is root\_of that takes two arguments of type *int* and returns a *bool* value. The function returns *true* if the first argument is the square root of the second; otherwise, it returns *false*.