

Exercise # 4

(17-10-2001)

Exercise 1

Define and identify the following items in the program fragment shown below.

function definition	formal parameters
actual parameters	function call
function declaration	function body

```
void Test(int, int, int);
```

```
int main ()  
{  
    int a;  
    int b;  
    int c;  
    ...  
    Test(a, c, b);  
    Test(b, a, c);  
    ...  
}
```

```
void Test (int d, int e, int f)  
{  
    cout << (d + e)*f << endl;  
}
```

Exercise 2

What is the output of the following program?

```
#include <iostream.h>
```

```
void Print (int ,int);
```

```
int main ()  
{  
    int n;  
    n = 3;  
    Print(5, n);  
    Print(n, n);  
    Print(n*n, 12);  
    return 0;  
}
```

```
void Print(int a, int b)
{
    int c;
    c = 2*a + b;
    cout << a << ' ' << b << ' ' << c << endl;
}
```

Exercise 3

Write a C++ program which inputs an integer representing a time amount in seconds, and outputs the equivalent amount of time in hours, minutes and seconds. Your program should be composed of three functions that return the number of hours, minutes and seconds.

Exercise 4

Indicate whether the following statement is true or false!

1. Functions can have no return value but should always be passed a number of parameters.
2. Functions cannot call previously undeclared functions.
3. A function is allowed to have only one return statement.
4. The actual parameters are evaluated before being passed to the function.