**Programming 2**

**Assignment 3**

1. **Given the following program, show the corresponding output on the screen:**



#include <iostream>

using namespace std;

double calcValue(int x,int y,int z,double w);

int main()

{

cout << "The calculated value is: " << calcValue (13,24,5,3.0) << endl ;

return 0;

}

double calcValue(int x,int y,int z,double w)

{

z = x--;

w = ++x/z+y/w;

return z,w;

}

1. **Complete the following statements:**

1. Execution always begins at the first statement in the function main, but other functions are executed only when they are invoked / called.
2. Once a value-returning function computes the value, the function returns this value via the return statement.
3. Function prototype: function heading without the body / implementation of the function.
4. Function overloading is creating several functions with the same name.
5. Formal Parameters are variable declared in the heading of a function, whereas Actual Parameters are variable or expression listed in a call of a function.
6. **Using functions, write the corresponding full C++ programme to find the sum of two numbers.**

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1. **Using functions, write the corresponding full C++ programme to find the area of a square.**

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1. **Using functions, write the corresponding full C++ programme to find if a given number is Negative, Positive, or Zero (checkPolarity).**

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1. **Using functions, write the corresponding full C++ programme to print the sum of numbers from 1 to n (printSum).**

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