15.1 WAP in C++ to read and write from and to a file using ifstream and ofstream.

15.2 WAP in C++ to perform these tasks:

- a. Read from a file using fstream [char by char]
- b. Write into a file using fstream
- c. Append into a file using fstream

15.3 WAP in C++ for IO manipulators mentioned below:

- a. IOS: hex,dec,skipws,noskipws
- b. Istream: ws
- c. Ostream: endl, ends, flushd. Iomanip: setW, setPrecision

16.1 WAP in C++ to create a genetic add function for given tasks:

- a. Perform add over two integers and return integer
- b. Perform add over one int and one float and return double

16.2 WAP in C++ to perform these tasks:

- a. Catch a Divide by zero exception in z = x/y using "throw runtime_error"
- b. What will be the output of this program and why?

```
#include <iostream>
using namespace std;

int main()
{
   try {
     throw 'a';
   }
   catch (int x) {
     cout << "Caught " << x;
   }
   catch (...) {
     cout << "Default Exception\n";
   }
   return 0;
}</pre>
```

c. What will be the output of this program and why?

```
#include <iostream>
using namespace std;

int main()
{
   try {
     throw 'a';
   }
   catch (int x) {
     cout << "Caught ";
   }
   return 0;
}</pre>
```

d. Rethrow and catch an exception by creating a separate user defined divide function for condition divide by zero.