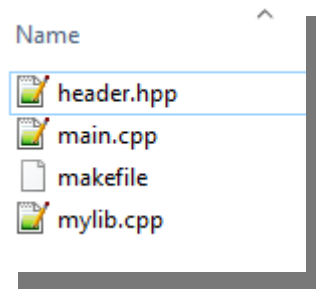


Application 1

Write a program that prints the elements, sum and mean of a given array . An example main file is given below.

```
1 #include<iostream>
2 #include "header.hpp"
3 using namespace std;
4 int main(void)
5 {
6     //example array
7     double arr[] = {12, 3, 4, 15};
8     int n =4;//or n =sizeof(arr) / sizeof(arr[0]);
9     cout<<"Array=";
10    print(arr,n);cout<<endl;
11    cout<<"Sum  ="<< sum(arr,n)<<endl;
12    cout<<"Mean ="<< mean(arr,n)<<endl;
13    return 0;
14 }
```

Your project director should contain a main file, a header file, a library file and a make file like below;



Use **make** (on Linux) or **mingw32-make** (on Windows) to compile your program. The below figure show

```
C:\Windows\System32\cmd.exe
C:\DATASTRUC\makefile2>mingw32-make
g++ -c mylib.cpp
g++ main.cpp -o prog mylib.o
prog
Array=12 3 4 15
Sum  =34
Mean =8.5
C:\DATASTRUC\makefile2>
```

an example run of the program.