

Simple guide of writing to file

Contact Felix if you find there is a mistake/ something that is version dependent

C

- C remember to #include the needed library:
 - C: <stdio.h>
- See this example

```
#include <stdio.h>

int main()
{
    FILE *f;// declare a FILE named f
    f = fopen("example1.txt","w"); // open the file, "w" mean create a new file (remove old)and write only. use " " not ' '
    fprintf(f,"Hello World! \n");// you need to put the f in the first arguemnt, and remember to use \n to move to another line
    fprintf(f,"writing simple text! \n");
    fprintf(f,"%d %d %d\n",1,2,3);//use $d for integer (basically same as printf format)
    fprintf(f,"%f %f %f\n",1.618,2.718,3.1415);//use $f for float (or double), or you can use %lf for double
    fclose(f);//close your file
    return 0;
}
```

C++

- C++ : <iostream>, <fstream> (or you can use fprintf in <cstdio> like C)
- See this example

```
#include <iostream>
#include <fstream>

using namespace std; //remember to add this line
int main()
{
    ofstream fileout;
    fileout.open("testing.txt");
    fileout<<"Hello World!"<<endl; //uss endl to end the current line
    fileout<<1<<" "<<2<<" "<<3<<endl; // you need to manully add " ", or you can try to use "\t"
    double x=1.618,y=2.718,z=3.1415;
    fileout<<x<<" "<<y<<" "<<z<<endl;
    fileout.close();
    return 0;
}
```

Java

- Disclaimer: I am not familiar with Java so I am not sure if this is correct
- Disclaimer2: there are many versions of Java so the following example may not work
- Java: `import java.io.*;`

```
FileWriter fw = new FileWriter(fileName);
PrintWriter pw = new PrintWriter(fw);
// Write variable to file
pw.print("Something");
pw.println(x);
// Close
pw.close();
```

Python

- NO need to import

```
filename="example3.txt"
outF=open(filename,'w')
outF.write("Hello World!\n")
outF.write("1 2 3\n")
x=1.618
y=2.718
z=3.1415
outF.write(f"{x}\t{y}\t{z}")
```