

Shikhar Kanaujia 12311005 CSE-A

```
#include <iostream>
```

```
#include <fstream>
```

```
#include <sstream>
```

```
using namespace std;
```

```
int main(void)
```

```
{
```

```
    string filename;
```

```
    cin >> filename;
```

```
    ifstream file(filename);
```

```
    if (!file.is_open()) {
```

```
        cerr << "Error: Could not open the file." << endl;
```

```
        return 1;
```

```
    }
```

```
int charCount = 0, wordCount = 0, lineCount = 0;
```

```
string line;
```

```
while (getline(file, line)) {
```

```
    lineCount++;
```

```
    charCount += line.length();
```

```
    istringstream iss(line);
```

```
    string word;
```

```
    while (iss >> word) {
```

```
        wordCount++;
```

```
    }
```

```
}
```

```
file.close();
```

```
cout << "Characters: " << charCount << endl;
```

```
cout << "Words: " << wordCount << endl;
```

```
cout << "Lines: " << lineCount << endl;
```

```
}
```