

```

Script started on 2024-02-28 17:53:04-06:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="159" LINES="49"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Projects/Project_3[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Projects/Project_3[00m$ pwd
[?2004l
/home/jovyan/CS2/Projects/Project_3
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Projects/Project_3[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Projects/Project_3[00m$ ls -la
[?2004l
total 56
drwxr-sr-x 3 jovyan users 4096 Feb 28 17:53 [0m[01;34m.[0m
drwxr-sr-x 6 jovyan users 4096 Feb 24 11:19 [01;34m..[0m
-rwxr-xr-x 1 jovyan users 23712 Feb 28 17:50 [01;32mdecoder[0m
-rw-r--r-- 1 jovyan users 2946 Feb 28 17:50 galactic_decoder.cpp
drwxr-sr-x 2 jovyan users 4096 Feb 24 11:32 [01;34m.ipynb_checkpoints[0m
-rw-r--r-- 1 jovyan users 22 Feb 24 11:30 passcode1.dat
-rw-r--r-- 1 jovyan users 1656 Feb 24 11:32 passcode2.dat
-rw-r--r-- 1 jovyan users 2605 Feb 24 11:32 passcode3.dat
-rw-r--r-- 1 jovyan users 5 Feb 24 11:32 passcode4.dat
-rw-r--r-- 1 jovyan users 0 Feb 28 17:53 Sabin_Project_3.log
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Projects/Project_3[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Projects/Project_3[00m$ cat -n galactic_decoder.cpp
[?2004l

```

```

1  /*
2  Tyler Sabin
3  Section 004
4  Project 3
5  In this project, we will be decoding a passcode
6  through a set of instructions given by a file with
7  a starting point of 5 on the pincode
8  */
9
10 #include <iostream>
11 #include <fstream>
12 #include <string>
13
14 //Declare functions at the top
15 int open_file(std::ifstream &inFile);
16 std::string decode_passcode(std::ifstream &inFile, std::string &passcode);
17
18 int main(){
19
20     //Declare variables for read file & passcode
21     std::ifstream inFile{};
22     std::string passcode{};
23     int fileExists{};
24
25     //Open file
26     fileExists = open_file(inFile);
27
28     //Store the returned passcode into a variable
29     if(fileExists == 1){
30         passcode = decode_passcode(inFile, passcode);
31         //Print out the passcode
32         std::cout << "Passcode: " << passcode << '\n';
33     }
34
35     //Close file
36     inFile.close();
37
38     return 0;
39 }
40
41
42
43
44
45
46
47 int open_file(std::ifstream &inFile){
48
49     //Set variable for input file name
50     std::string fileName{};
51
52     std::cout << "Enter file to translate: ";
53     std::cin >> fileName;
54     std::cout << '\n';
55
56     //Attempt to open file, if file doesn't exist, print an error code
57     inFile.open(fileName);
58     if(!inFile){
59         std::cout << fileName << "was unable to be opened...\n";
60         return 2;
61     } else{

```

[illegible]

```
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Projects/Project_3[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Projects/Project_3[00m$ exit
[?2004l
exit
```

Script done on 2024-02-28 17:55:02-06:00 [COMMAND\_EXIT\_CODE="0"]