```
#include <fstream>
    #include <cstdlib>
 3
     #include <ctime>
 4
     #include <iostream>
 5
 6
     int main()
 7
     {
 8
         int numberItems = 0, knapsackCapacity = 0, itemName, itemValue,
         itemWeight;
                                     //Creating variables
 9
10
         srand(time(NULL));
         //Ensuring Random Numbers Changed
11
12
         //Create File
13
         std::ofstream file;
         file.open ("jouleFile.txt");
14
15
16
         while (numberItems <= 0 || knapsackCapacity <= 0) {</pre>
17
              //Number of Items & Knapsack Capacity
18
             std::cout << "Number of Items:</pre>
             ";
                                                                    //Gathering Number of Items
19
             std::cin >> numberItems;
20
             std::cout << "Knapsack Capacity:</pre>
                                                                  //Gathering Knapsack Capacity
21
             std::cin >> knapsackCapacity;
22
         }
23
24
         file << numberItems << " " << knapsackCapacity << "\n";</pre>
         //Input Information
2.5
26
         //Item, Item Value, and Item Weight
27
         for(int i = 0; i < numberItems; i++)</pre>
28
             itemName = i + 1;
29
             //Setting Item Number
             itemValue = rand()%(176) + 25;
30
             //Allowing for between 25 and 200 in item value
31
             itemWeight = rand()%(3*numberItems) + 1;
             //Allowing for weights between 1 and 3 \star numberItems
32
             file << itemName << " " << itemValue << " " << itemWeight << std::endl;
             //Input Information
33
         }
34
35
         //Close File
36
         file.close();
37
38
         return 0;
39
     }
```