

```

Script started on 2024-02-16 16:47:55-06:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="252" LINES="58"]
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ pwd
[?2004l
/home/jovyan/CS2/Lab/Lab_8
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ls -la
[?2004l
total 16
drwxr-sr-x  3 jovyan users 4096 Feb 16 16:47 [0m[01;34m.[0m
drwxr-sr-x 11 jovyan users 4096 Feb 16 16:19 [01;34m..[0m
-rw-r--r--  1 jovyan users 1396 Feb 16 16:47 diceroller.cpp
drwxr-sr-x  2 jovyan users 4096 Feb 16 16:47 [01;34m.ipynb_checkpoints[0m
-rw-r--r--  1 jovyan users   0 Feb 16 16:47 Sabin_Lab_8.log
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ cat -n
diceroller.cpp
[?2004l
 1  /*
 2  Tyler Sabin
 3  Section 004
 4  Lab 8
 5  This program will take two inputs, amount of dice and sides.
 6  This will then Roll and give each roll & total
 7  */
 8
 9  #include <iostream>
10  #include <fstream>
11  #include <string>
12  #include <cstdlib>
13  #include <ctime>
14
15  //Function to reference the variables in main
16  //Will also check to see if the values are negative
17  void dice_type_amount(int &num_dice , int &side_amnt){
18      std::cin >> num_dice >> side_amnt;
19      if(num_dice < 0 || side_amnt < 0){
20          std::cout << "Illegal value entered...\n";
21          return;
22      }
23  }
24
25  //Function will take two arguments and randomly generate a number between 1-num of sides
26  //Will also print each roll and return the total
27  int roll_and_total(int amnt , int sides){
28      int total{};
29      std::cout << "Rolling " << amnt << 'd' << sides << '\n';
30      for(int roll{0}; roll < amnt; roll++){
31          int number{rand() % sides + 1};
32          std::cout << number << '\n';
33          total += number;
34      }
35      return total;
36  }
37
38  int main(){
39
40      srand(time(0)); // Seed random
41      int num_dice_user{};
42      int num_sides{};
43      int total{};
44
45      std::cout << "++++ Super Awesome Dice Roller ++++\n";
46      std::cout << "Enter amount and number of sides: ";
47
48      dice_type_amount(num_dice_user,num_sides);
49      std::cout << '\n';
50      total = roll_and_total(num_dice_user,num_sides);
51
52      std::cout << "Total: " << total << std::endl;
53      return 0;
54
55  }[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$
g++ -Wall -Wextra -Werror diceroller.cpp -o roll
[?2004l
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
bash: ./roll: No such file or directory
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 0 6

Rolling 0d6
Total: 0
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll

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[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 10 20

Rolling 10d20
2
1
5
9
2
12
7
7
4
18
Total: 67
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 4 10

Rolling 4d10
8
6
8
9
Total: 31
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 3 4

Rolling 3d4
1
3
3
Total: 7
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 8 6

Rolling 8d6
5
1
6
1
1
5
3
5
Total: 27
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: -1 4
Illegal value entered...

Rolling -1d4
Total: 0
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ ./roll
[?2004l
++++ Super Awesome Dice Roller ++++
Enter amount and number of sides: 8 -2
Illegal value entered...

Rolling 8d-2
1
2
1
2
1
2
1
2
Total: 12
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CS2/Lab/Lab_8[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CS2/Lab/Lab_8[00m$ exit
[?2004l
exit

Script done on 2024-02-16 16:49:58-06:00 [COMMAND_EXIT_CODE="0"]
```