

1. Syntax errors - An error in the syntax of the code, for instance a missing semicolon or a miss typed function such as putting cotu instead of cout

Runtime errors - An error that occurs while the program is running after being compiled for a long time.

Logic errors - A logic error occurs when the program runs properly but doesn't produce the correct output.

2.

```
C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
2
4
1
1
```

```
clang++-7 -pthread -std=c++17 -o main main.cpp
main.cpp:8:13: warning: remainder by zero is undefined [-Wdivision-by-zero]
    cout << 5 % ((13 % 12) - 1) << endl;
               ^
1 warning generated.
> ./main
1222742888
>
```

3.

```
C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Please enter a number: -16
Program doesn't accept negative numbers.

Process finished with exit code 3
```

```
C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Please enter a number: 16
The given number (16) is divisible by 4
Quotient: 4 and Remainder: 0

Process finished with exit code 0
```

```
C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Please enter a number: 15
The given number (15) is not divisible by 4
Quotient: 3 and Remainder: 3

Process finished with exit code 0
```

```
C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Please enter a number: 121
The entered number is greater then 100 and the square root of (121) is 11

Process finished with exit code 0
```

4. C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter a ASCII number:
34
The character is "

Process finished with exit code 0

5. C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter a ASCII number:
34
The character is "

Process finished with exit code 0

6. C:\Users\bmt81\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter a number between 0 and 1000:
972
The sum of the digits is 18

Process finished with exit code 0