**Input:**

(((x+25)\*2)-(y/3)),x=5,y=10;

((y>x)&(x<z)),x=3,y=9,z=3;

((x=y)|((x=5)!),x=5,y=15;

((x:y?z)>y),x=22,y=11,z=9;

**Output:**

**(((x+25)\*2)-(y/3)),x=5,y=10; Value = 57**

In this equation addition, multiplication, subtraction and division are tested. Expected value when calculating the equation is 57 and actual value is also 57

**((y>x)&(x<z)),x=3,y=9,z=3; Value = 0**

In this equation the and operator, the grater than sign and less than sign are tested. Expected value is 0 since x is not less than 0 and actual value is also 0

**((x=y)|((x=5)!),x=5,y=15; Value = 1**

In this equation the equal, or and negation operators are tested. Since the expression is true the expected value is 1 and actual value is also 1

**((x:y?z)>y),x=22,y=11,z=9; Value = 1**

In this equation conditional statement is tested. Since the statement is true the expected value is 1 and actual value is also 1

**Screen capture**

A screenshot of a cell phone

Description automatically generated

This was a challenging project. I am familiar with C++ but preferer Java. I think the project might be simpler in Java. The first step for me was to design the program on paper. After that I put together all the steps. The module reading was helpful. I learned a lot from this project. I had problems with visual studios, but eclipse’s C++ compiler worked fine. I have gained more experience with C++. I also have a better understanding on how compilers work.