LAB EXERCISE – 7

1) Run the multiple-target assignment statement below by using C++, Java and Python. Display the variables before and after the statement and explain how it works.

2) Compare these two if statements; if (c = b) and if (c == b) in C++ and Java and explain how they work.

3) Assign a value to each variable, run this expression a = b + (c = d / b) - 1; in C++ and Java, and explain how it works. Convert the two expressions below to one assignment expression and run it.

$$x=y+5; t=x*z-1;$$

4) Run the code in C++ below and explain why the c value is different after the second if statement is executed. Run the code in Java and compare your results.

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t=59; a=54; c=9; cout << "\n before if t = " <<t<< " a = " <<a<< " c = " <<c; if ((t > a) || (c++/3)) cout << "\n in if t = " <<t<< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t<< " a = " <<a<< " c = " <<c; t=50; cout << "\n before if t = " <<t<< " a = " <<a<< " c = " <<c; if ((t > a) || (c++/3)) cout << "\n in if t = " <<t<< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t<< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t<< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t<< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<< " c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<> c = " <<c; cout << "\n after if t = " <<t< " a = " <<a<> c = " <<c; c
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