## **Lecture Slides**

https://csci-1301.github.io/about#authors

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<sup>&</sup>lt;sup>1</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/010 general concepts/Programming-Intro.pptx

 $<sup>^2</sup> https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/010\_general\_concepts/Programming-Intro.pdf$ 

 $<sup>^3</sup> https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/020\_first\_program/C\%23-Intro-WriteLine.pptx$ 

<sup>&</sup>lt;sup>4</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/020\_first\_program/C%23-Intro-WriteLine.pdf

<sup>&</sup>lt;sup>5</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/030\_datatypes\_and\_variables/Datatypes-Variables.pptx

 $<sup>^{6}</sup> https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/030\_datatypes\_and\_variables/Datatypes-Variables.pdf$ 

 $<sup>^7</sup> https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/030\_datatypes\_and\_variables/Datatypes-Variables-Details.pptx$ 

 $<sup>{}^{8}\</sup>text{https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/030\_datatypes\_and\_variables/Datatypes-Variables-Details.pdf}$ 

 $<sup>{}^9</sup> https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/040\_operators/Operators-Conversions.pptx$ 

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<sup>10</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/040 operators/Operators-Conversions.pdf
^{11} https://github.com/csci-1301/csci-1301/github.io/raw/main/lectures/040\_operators/Arithmetic-Conversions.pptx
^{12} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/040\_operators/Arithmetic-Conversions.pdf
<sup>13</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/050_reading_and_displaying/Input-Output-
          Concatenation.pptx
^{14} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/050\_reading\_and\_displaying/Input-Output-Displaying/Input-Output-Displaying/Input-Output-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/Input-Displaying/In
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<sup>17</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/060_object_oriented_intro/Method-Details-
          UML.pptx
<sup>18</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/060_object_oriented_intro/Method-Details-
          UML.pdf
^{19} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented\_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-Reference-lectures/060\_object\_oriented_intro/Scope-R
          Types.pptx
<sup>20</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/060_object_oriented_intro/Scope-Reference-
          Types.pdf
<sup>21</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Constructors-
<sup>22</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Constructors-
          ToString.pdf
<sup>23</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties.p
^{24} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/070\_object\_oriented\_contd/Overloads-Properties.pt/sci-1301/csci-1301/csci-1301.github.io/raw/main/lectures/070\_object\_oriented\_contd/Overloads-Properties.pt/sci-1301/csci-1301.github.io/raw/main/lectures/070\_object\_oriented\_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object\_oriented\_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object\_oriented\_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties.pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties-pt/sci-1301.github.io/raw/main/lectures/070_object_oriented_contd/Overloads-Properties-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/raw/main/lectures-pt/sci-1301.github.io/ra
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<sup>25</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/080_decisions_booleans_and_comparisons/Booleans-
          Comparisons.pptx
<sup>26</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/080_decisions_booleans_and_comparisons/Booleans_
          Comparisons.pdf
^{27} \rm https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/090\_if/If-Else.pptx
^{28} \rm https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/090\_if/If-Else.pdf
<sup>29</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/100_switch/Switch.pptx
<sup>30</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/100_switch/Switch.pdf
<sup>31</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/110_while_loops_and_vocabulary/While-
          Increment.pptx
<sup>32</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/110_while_loops_and_vocabulary/While-
          Increment.pdf
<sup>33</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/110_while_loops_and_vocabulary/Do-While-
<sup>34</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/110 while loops and vocabulary/Do-While-
          Vocab.pdf
^{35} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes
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^{36} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_decision\_and\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes/If-With-lectures/130\_combining\_classes
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<sup>37</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/130_combining_decision_and_classes/While-With-
<sup>38</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/130_combining_decision_and_classes/While-With-
          Classes.pdf
^{39} \rm https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/140\_arrays/Arrays.pptx
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<sup>41</sup>https://github.com/csci-1301/csci-1301.github.jo/raw/main/lectures/150 for loops/For-Loops,pptx
^{42} https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/150\_for\_loops/For-Loops.pdf
<sup>43</sup>https://github.com/csci-1301/csci-1301.github.io/raw/main/lectures/160_foreach/Arrays-Foreach.pptx
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