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| -Course Name | ITD 2313 – Script Programming |
| Instructor | Mr. Schnell |
| Student Name | Braden South |
| Due date | 6/2/2024 |
| Grade | Put grade earned here |
| Grading Comments | Put instructor comments here |

## The boolean type, Comparisons, and Boolean expressions

### Page 64

1. At the top of the page, you will find a code example block with several boolean expressions to enter

## if-else statements

### Page 65

1. About half the way down on the page, you will find a code example block starting with import math.

A screenshot of a computer

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1. You do not type in the if template as part of this exercise.
2. At the top of page 66t is your first code example block for this page

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1. The second and final for the page hits at about the half way down on the page and covers min/max functionality.

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## Multi-way if statements

### Page 67

1. The code example blocks is half way down the page.

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1. The second code example block is in the middle of the page.

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## Logical Operators and Compound Boolean expressions

### Page 68

1. The code example block is about 1/2 the way down on the page.

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1. The second code example block is about 3/4 way down.  Notice in this example that there is a single line comment saying that the compute and print code goes here.  I would like you to replace that comment with the code the computers the Square of the number they input and print out the result to the user.

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Description automatically generated

1. The third code example block is at the bottom of the page.  It also has a single line comment that will need to be replaced with code the computes and displays the square of the number input.

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1. Steps 2 and 3 show code but not any results in the text.  You will need to execute the code so that it shows the results on both sides of the if statement.  This will mean 2 screen shots for each step.  One shows the true and one shows the false.

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### Page 69

1. The first code example block on the page is at the bottom on the page.

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### page 70

1. The code example block is on the top of the page.

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## Short Circuit evaluation

### Page 70

1. The first code example block is about 3/4 the way down the page.  Show how it runs with a couple of different values.  Count needs to be set to 0 at least 1 time.

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1. For a better understanding of the topic, consider for your own learning to switch the order of the two items in the compound Boolean expression.  That means, check the count>0 on the Right Side of the AND.  See what happens when you run it with Count = 0.  This is just for you to further understand and see the results.  You will not need to screenshot this step.

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# Conditional Iteration:  The while Loop

## The structure and behavior of a while loop

### Page 73

1. At the top of the page is the code example block on the page.  When you execute it, be sure to use the same numbers shown in the text to get the same answer as in the text.

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## Count control with a while loop

### Page 73

1. About 2/3 mark on the page, there are two while loop code examples in that block.  The issue is that they do not show you the results.  Be sure you capture the results.

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1. At the top of page 74, they do it again and show you two loops without showing the output.  Enter both the loops in the code example block and catch the output for them.

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Description automatically generated

## The while true loop and the break statement

### Page 74

1. The first of the code example blocks is about 1/2 down the page.  They do now show you the results, but you will need to catch some portion of the results in a screen shotA screenshot of a computer

   Description automatically generated
2. The second code example is 3/4 the page.  A sample run is show so duplicate that sample run when you do the screen shot.

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1. At the very bottom is the last of the three-code example blocks for this page.  It does spill onto the next page.  Be sure to grab some output your screen shot. A screenshot of a computer

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## Random Numbers

### Page 75

1. Ever wanted to make your own dice roller?  Well, here you go, using this code example block in the 3/4 of the page will let you make one.  Your output most likely will be different since the roles are supposed to be random.

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1. Another code block begins at the bottom of the page but it spills onto the next page so it will be part of the page 76 screen shots.
2. Your output may vary again since there is a random number involved.  Guess the best way you can.