Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write your answers on this test. **TAKE YOUR TIME and READ QUESTIONS CAREFULLY!** I give partial credit, so if you don't know the complete answer to a question, write down the parts that you do know. Unless a question asks you to write a complete program, you only need to write the statements required to perform the requested task. **POINTS = 60.**

**\*\* Indent use TAB. Make sure all scopes are checked.**

1. (5 pts) The following identifiers are invalid?

|  |  |
| --- | --- |
| **Invalid identifiers** | **Reason(s) to be invalid** |
| $valueOne |  |
| utrageously+ndShockingly/LongRunon |  |

1. (5 pts) Evaluate the following expression

|  |  |
| --- | --- |
| Expression | Answer |
| 7 % 3 + 2 //7 – 1% 7 |  |
| 2 % 3 == 3 \* 2 and 11 != 15 |  |

1. (5 pts.) Given a variable income, which contains a floating value, write **a statement** that prints the value of income standard output. Make sure to format the output to 2 decimal places.

|  |
| --- |
| # Write your code below  # end of your code |

1. (5 points) Write codes using for statement that will display all numbers between 1 and 100 which are divisible by 2.

|  |
| --- |
| # Write your code below  # end of your code |

1. (5 points) Write while statement that will display all the odd numbers between 1 and 100

|  |
| --- |
| # Write your code below  # end of your code |

1. (5 points) Write codes that will check the value of income. If income is more than 11000, it will print “You are below poverty level”, otherwise it will print “You are over poverty level.”.

|  |
| --- |
| # Write your code below  income = 1000  # end of your code |

1. (5 points) Write codes that will display the appropriate message based on the following.

groupSize more than 20 “Discount: 25%”

groupSize10 to 20 “Discount: 15%”

groupSize 7 to 10 “Discount: 10%”

groupSize less than 7 “Discount: 1%”

|  |
| --- |
| # Write your code below  groupSize = 22  # end of your code |

1. (5 points) Write a function (goDisplay) that has a parameter (distance). The function will print the distance with the following message “The distance between the sun and the planet is: “distance

|  |
| --- |
| # Write your code below  # end of your code |

1. (5 points) Write a function (findArea) that will accept 2 parameters (length and width). The function will return the area of the rectangle. The area is defined by length times width

|  |
| --- |
| # Write your code below  # end of your code |

1. (5 points) Write a function (getIntegerData) that will return an integer value entered by users.

|  |
| --- |
| # Write your code below  # end of your code |

1. (10 points) Write codes that display the average of numbers between 1 and 100

|  |
| --- |
| # Write your code below  # end of your code |