ISAT 252

**Worksheet 6: Simple Functions**

Name: \_\_\_Kadar Anwar\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_\_\_\_\_\_\_\_

1. value-returning function is \_\_c\_\_.
2. a single statement that perform a specific task
3. called when you want the function to stop
4. a function that will return a value back to the part of the program that called it
5. a function that receives a value when it is called
6. What is the output of the print statement:

print('Name\tAddress\tPhone Number\n'+ 'Python\t'+'1Way\tNone')

Name Address Phone Number

Python 1Way None

1. Given the following function definition, what would the statement **print magic(5)** display def magic(num):

return num + (num%3)\*\*2

9.0

1. What mpg did you use for your vehicle? Fill out this chart that shows your inputs to compare the two jobs?

|  |  |  |  |
| --- | --- | --- | --- |
| **Distance to work** | **Number of days** | **MPG of vehicle** | **Emissions for a year** |
| 25 | 5 | 20 | 12,610.00 lbs |
| 15 | 5 | 20 | 7,566.00 lbs |
|  |  |  |  |

1. Based on your data generated by your program above, which job should you take and why? Are there other extenuating circumstances that might change this decision?

Based strictly on the above data, and if the recent graduated commuted with his coworker, he or she should take the job at Software 4 Us. The emissions from this would be 6,305 lbs, compared to the 7,566 lbs from the commute to Biotech Forever. Other factors would be compensation, benefits and work schedule flexibility to take into consideration before accepting a job. If the graduate can work at Biotech Forever and telecommute or work from home 3 days a week, his/her car would only emit 4,539.60 lbs of CO2/year.