# Alternate Project 1: Magic Square Created by Brian Weinfeld Using Python, you will use variables, input, and casting to create a Magic Square. ## Overview Pick a number from 21-65. 42 , you say? OK! Check this out! "python 22 01 12 07 11 08 21 02 05 10 03 24 04 23 06 09 "If you add up all the numbers in each row, they total 42. (22 + 1 + 12 + 7 = 11 + 8 + 21 + 2 = 42) If you add up all the numbers in each column, they total 42. (22 + 11 + 5 + 4 = 1 + 8 + 10 + 23 = 42) If you add up all the numbers in each diagonal, they total 42. (22 + 8 + 10 + 23 = 42)+3+9=7+21+10+4=42) It is the same for each of the four corners, and each 2x2 block as well. (22 + 4 + 9 + 7 = 42) This is called a Magic Square and for this project, you are going to create a program that lets users select a number and create a magic square from that number. ## Details ### Behavior ```python Welcome to Magic Square Enter a number from 21 to 65: 42 You have entered 42 Here is your Magic Square: 22 01 12 07 11 08 21 02 05 10 03 24 04 23 06 09 " ### Implementation Details Believe it or not, Magic Squares are not difficult to make! Watch the following video to see how to make a Magic Square for any given number: [![Magic 8 Ball](https://img.youtube.com/vi/aQxCnmhqZko/0.jpg)](https://www.youtube.com/watch?v=aQxCnmhqZko) ### Challenge This section contains additional components you can add to the project. These should only be attempted after the project has been completed. \* What happens if the user enters a number outside the range of 21-65? Try to check for this and print an error message! \* What happens if the user doesn't enter a number at all and enters a word instead? Try to check for this and print an error message! \* Build a Magic Square with a small number like 22. The Magic Square isn't aligned properly and hard to read. Try to fix this!