

Mallab Lab4: (Use m-file for the assignment)

1. (a) Generate a table of conversions from yen to dollars. Start the yen column at 5 and increment by 5 yen. Print 25 lines in the table. Table should include a title, column labels and formatted output (use **disp** and **fprintf** commands)

(b) Generate a table of conversions of four columns. First column contains dollars, second contains equivalent number of euros, third contains equivalent number of pounds and fourth contains equivalent number of yens. Print 25 lines in the table. Table should include a title, column labels and formatted output (use **disp** and **fprintf** commands)

Dollar	Yen	Euro	British Pound
1	107.95	0.6498	0.5140

2. The height of the rocket can be represented by the following equation:

$$height = 2.13t^2 - 0.0013t^4 + 0.000034t^{4.751}$$

Where time is in seconds) and the height of the rocket is in meters. Use **for** loop to create a table of the time and height of the rocket from the time it launches until it hits the ground, in increments of 2 seconds.

3. Write a program that receives an integer (n) and then calculate the sum of integers 1 to n (exp. 1 + 2 + 3 + + n) using **for** loop. Display the result in a format shown below

The sum of the integers 1 to 4 is 10

4. Write a program which allows the user to enter a number and prints the entered number is positive or negative. For example,

The number 4 is positive