ASSIGNMENT: 4

- 1. Write a script file in MATLAB to solve the following problem.
 - I. Arnold buys three apples, a dozen bananas, and one watermelon for Rs. 72.36.
- II. Deepika buys a dozen apples and two watermelon for Rs. 115.26.
- III. Uttam buys two bananas and three watermelon for Rs. 42.77.
- IV. How much do single pieces of each fruit cost?

2. Write a program to solve linear equations:

z = -0.20627

```
i. 15x = 5y-8z
ii. 9y+3z = x+6
iii. 10x+4y-z = 7
```

```
matl.m × mat2.m × +
           A2 = [15, -5, 8;
                    -1, 9, 3;
10, 4, -1];
           B2 = [0;
                    6;
7];
 7
8
9
10 -
           solution = A2 \ B2;
           % Display the results
12
           % Display the results
disp('Solution for x, y, z:');
disp(['x = ', num2str(solution(1))]);
disp(['y = ', num2str(solution(2))]);
disp(['z = ', num2str(solution(3))]);
13
14 -
15 -
16 -
17
Command Window
New to MATLAB? See resources for Getting Started.
   Cost of one watermelon (w): Rs.
       12.1757
   >> mat2
   Solution for x, y, z:
   x = 0.36881
y = 0.7764
```