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# Principles of Programming

**CT4029**

**Workbook – Session 9**

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## Section A

### 1. Question 1:

Create an array of size 4 with all zero elements

### 2. Question 2:

Create an array with elements 1 to 5 with 0.5 increment between each element

Example: [1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5]

### 3. Question 3:

Create a null array (all zeros) of size 10 but the fifth value which is 1

Example: [0,0,0,0,1,0,0,0,0,0]

### 4. Question 4:

Create an array with values ranging from 10 to 49

### 5. Question 5:

Create a 3x3 matrix with values ranging from 0 to 8

### 6. Question 6:

Find the mean and standard deviation of matrix created in question 5

### 7. Question 7:

Use the dataset from last session (User\_dataset.xlsx) and present a bar/histogram of the appointment times and shopping methods.