**Sarah zreiqat 8D**

**Question 1: Evidence 1**

**Fruitlist=[]**

**fruit=input("enter a fruit")**

**Fruitlist.append(fruit)**

**print(Fruitlist)**

**Question2: Evidence 2**

**Vegetablelist=[]**

**for i in range(10):**

 **vegetable=input("enter a vegetable")**

 **Vegetablelist.append(vegetable)**

 **print(Vegetablelist)**

**Question 3: Evidence 3**

**Cities=["New York", "Paris", "Madrid", "Amman"]**

**lengthlist=len(Cities)**

**print(lengthlist)**

**Cities.append("London")**

**print(Cities)**

**Cities[0]="Dubai"**

**print(Cities)**

**del Cities[2]**

**print(Cities)**

**print (Cities[1])**

**print (Cities[2])**

**length=len(Cities[2])**

**print(length)**

**print(Cities)**

**Question 3: Evidence 4**

**Cities=["New York", "Paris", "Madrid", "Amman"]**

**lengthlist=len(Cities)**

**print(lengthlist)**

**Cities.append("London")**

**print(Cities)**

**Cities[0]="Dubai"**

**print(Cities)**

**del Cities[2]**

**print(Cities)**

**print (Cities[1])**

**print (Cities[2])**

**length=len(Cities[2])**

**print(length)**

**print(Cities)**

**Cities[7]="Tunis"**

**print(Cities)**

**This caused an error because there is no element 7 to begin with therefore there is nothing to be changed if we add elements to the Cities list until we reach the 7th element it would not be an error but since we have no 7th element it would be an error.**