

Joel Turbi
Dr. Zavala
CS350 – Programing Language Paradigms
Homework Assignment #1
09/03/2019

1.

- a) True
- b) False
- c) True
- d) False
- e) False
- f) True

2.

- a) Selection
- b) Iteration

3.

✓ **Python3**

```
weight = int(input("Enter your luggage weight in pounds:"))  
  
if (weight > 50):  
    print("There is a $30 charge for luggage that heavy!")  
  
else:  
    print("Thank you for your business.")
```

4.

✓ Python3

```
if (a + b) <= c:
    print("Invalid sides for triangle.")
elif (a + c) <= b:
    print("Invalid sides for triangles.")
elif (b + c) <= a:
    print("Invalid sides for triangles.")
else:
    print("Valid sides for triangle.")
```

5.

- ✓ I like to drink water
- ✓ I like to drink orange juice
- ✓ I like to drink tea
- ✓ I like to drink coffee
- ✓ I like to drink milk

6.

```
for finger in fingers:
    Chorus(finger)
```

7.

✓ Python3

```
def weekpay(hourlysalary, hours):
    overtime = ((hours - 40) * (hourlysalary * 1.5))
    totalpay = hourlysalary * 40
    payment = hourlysalary * hours
    return payment if (hours <= 40) else totalpay + overtime
```

8.

```
["Mercedes", "Volvo", "BMW", "Lexus", "Tesla"]
["Mercedes", "Volvo", "BMW", "Lexus", "Tesla"]
```

9.

```
[0, 4, 16, 36, 64, 100]
```

10.

```
[3, 9, 15, 21, 27]
```

11.

```
peanut butter
```

```
sugar
```

```
banana
```

12.

```
flavors = [flavor for flavor in ingredients if ingredients.index(flavor) in (1,2,3)]
```

13.

```
for movie in sorted(movies.keys()):
```

```
    if '2016' in movie:
```

```
        print(movie, movies[movie])
```

14.

✓ Python3

```
for student in students:
```

```
    if student['gpa'] > 2.85:
```

```
        print(student['name'])
```