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CS350 – Programing Language Paradigms

Homework Assignment #1

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**1.**

1. True
2. False
3. True
4. False
5. False
6. True

**2.**

1. Selection
2. 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.**

["Mercedez", "Volvo", "BMW", "Lexus", "Tesla"]

["Mercedez", "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'])