John GIbbons
Sep 8, 2019
CIS - 123
Ch .2

Exercise 1:

1. Get len_lot
2. Get wid_lot
3. Get len_house
4. Get wid_house
5. Get len_driveway
6. Get wid_driveway
7. Get sqft_bag
8. Get cost_bag

9. Area_lot = len_lot * wid_lot
10. Area_house = len_house * wid_house
11. Area_driveway = len_driveway * wid_driveway

12. Area_fertilize = area_lot - area_house - area_driveway
13. Bags = area_fertilize / sqft_bag
14. Cost = bags * cost_bag

15. Display bags
16. Display cost

Exercise 2:

1. Get len_lot
2. Get wid_lot

3. Sqft_lot = len_lot * wid_lot
4. Acre_lot = Sqft_lot / 43560

5. Display Acre_lot

Exercise 3:

1. If shoot key is pressed make a new bullet object at ship.x and ship.y
2. Bullet.x += bulletspeed
3. Bullet.y += bulletspeed
4. For each asteroid do
5. If bullet.x contains asteroid.x and bullet.y contains asteroid.y then kill bullet and call asteroid.Split
6. End
7. If Asteroid.size <= 1 then kill asteroid else call Asteroid.Split
8. Asteroid.split function does asteroid.size/2 and
9. Asteroid makes a new asteroid object at asteroid.x and asteroid.y with asteroid.size

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Exercise 4:

1. Get num_cookies
2. Get cal_per_cookie

3. Total_calories = num_cookies * cal_per_cookie

4. Display Total_calories

Exercise 5:

1. Get meal_cost
2. Tip = meal_cost * .2
3. Display Tip

Exercise 6:

1. Get desired_cookies

2. Sugar = 1.5 / 48
3. Butter = 1 / 48
4. Flour = 2.75 / 48

5. desired_sugar = desired_cookies * Sugar
6. desired_butter = desired_cookies * Butter
7. desired_flour = desired_cookies * flour

8. Display desired_sugar , desired_butter, desired_flour

Exercise 7:

1. Get old_odometer
2. Get new_odometer
3. Get tank_capacity
4. Get tank_fill_percentage

5. miles_delta = new_odometer - old_odometer
6. gallon_delta = tank_capacity - (tank_fill_percentage * tank_capacity)

7. Mpg = miles_delta / gallon_delta

8. Display Mpg

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Exercise 8:

1. Get c
2. F = c * 9/5 +32
3. Display F

Exercise 9

1. Get speed
2. Get time_traveled
3. Distance_traveled = speed * time_traveled
4. Display distance_traveled

Exercise 10:

1. Get movie_time
2. Get is_movie_G
3. Get age

4. If time is after 1 pm then base_price = 14
5. Else base_price = 10
6. If age <= 12 and is_movie_G then final_price = base_price * .9
7. If age >= 65 then final_price = base_price * .75

8. Display final_price