Main steps

1 Enter valid weight of food in each container and calculate total weight
2 Enter size of dog
3 Store a message that states if the total weight of food is within the recommended range
4 Calculate average weight
5 Display output messages

Refinements

```
1.1   totalWeight = 0
1.2   start fixed loop 5 times
1.3       enter the foodWeight
1.4       while the foodWeight < 0 or foodWeight > 200
1.5           display “Invalid, a single container can only hold up to 200g”
1.6           re-enter the foodWeight
1.7       end while
1.8       totalWeight = totalWeight + foodWeight
1.9   end fixed loop

2.1   display “Please enter the size of your dog: small, medium or large”
2.2   enter size of dog

3.1   if dog size = small and totalWeight is from 110 to 140 then
3.2       store message “This weight of food is suitable for your small dog.”
3.3   else
3.4       if dog size = medium and totalWeight is from 330 to 440 then
3.5           store message “This weight of food is suitable for your medium dog.”
3.6       else
3.7           if dog size = large and totalWeight is from 690 to 900 then
3.8               store message “This weight of food is suitable for your large dog.
3.9           else
3.10              store message “This weight of food is not recommended for the s
                    dog”
3.11          end if
3.12      end if
3.13  end if

4.1   averageWeight = totalWeight / 5
4.2   round averageWeight to 1 decimal place

5.1   start fixed loop 5 times
5.2       display next foodWeight
5.3   end fixed loop
5.4   display total weight message
5.5   display average weight message
5.6   display recommendation message
```

```python
#2022 Assignment

totalWeight = 0.0
foodWeight = [0.0]*5
dogSize =""
averageWeight=0.0
outputMessage = ""

#Start fixed loop for 5 containers
for counter in range(5):
  #Enter foodWeight and store in an array
  foodWeight[counter] = float(input("Please enter the food weight"))

  #Start input validation (0-200)
  while foodWeight[counter] < 0 or foodWeight[counter] >200:
    print("Invalid - a single container can only hold up to 200g")
    foodWeight = int(input())

  #Keep a running total of totalWeight
  totalWeight = totalWeight + foodWeight[counter]

#Determine size of dog and decide on outputMessage
dogSize = input("Please enter the size of the dog: small, medium or large"

if dogSize == "small" and totalWeight > 110 and totalWeight <140:
  outputMessage = "This weight of food is suitable for your small dog"
elif dogSize == "medium" and totalWeight > 330 and totalWeight <440:
  outputMessage = "This weight of food is suitable for your medium dog"
elif dogSize == "large" and totalWeight > 690 and totalWeight <900:
  outputMessage = "This weight of food is suitable for your large dog"
else:
  outputMessage = "This weight of food is not recommended for the size of

#Calculate average weight
averageWeight = totalWeight/5
#Round to 1 decimal place
averageWeight = round(averageWeight,1)

#Display each food weight stroed as an array
print("_____")
for counter in range(5):
  print("Weight " +str(counter+1)+ ":" + str(foodWeight[counter]))

#Print output messages
print ("The total weight is " + str(totalWeight))
print ("The average weight is " + str(averageWeight))
print (outputMessage)

```