# Worksheet 2b Iteration Answers

1. Write a program for working out the wages for a paperboy or papergirl. The program should ask how many papers were delivered each day for 7 days and then display the total amount earned. The newsagent pays 10p per newspaper delivered.

papersTotal = 0  
for count in range(7):  
 papers = int(input(“How many papers were delivered? ”))  
 papersTotal = papersTotal + papers  
  
print(“Total papers delivered =”, papersTotal)  
print(“Wages =”, papersTotal \* 10, “pence”)

1. Write a program to calculate the total number of goals scored in a tournament. First, the program should ask how many matches were played. For each match, the program should ask how many goals were scored. Once all the data has been entered the program should display the total number of goals scored and the average goals per match.

goalsTotal = 0  
matches = int(input(“How many matches were played? ”))  
  
for count in range (matches):

matchno = count + 1  
 goals = int(input(“How many goals were scored in match ” \

+ str(matchno) + “? ”))  
 goalsTotal = goalsTotal + goals  
  
print(“Total goals:”, goalsTotal)  
print(“Average goals:”, round(goalsTotal/matches,1))

***See Program L2 WS2b Ex2 in Sample programs folder***

1. Write a program for calculating the bill in a restaurant. The program should keep asking for the price of another item until the user enters 0. It should then print out the total bill.

total = 0

amount = 999  
  
while amount != 0:  
 amount = float(input(“Enter the price of the next item: ”))  
 total = total + amount  
  
print(“Total bill (£):”, amount)

1. Write a program keeping track of a game based on darts. The player starts with 101 points and points are subtracted based on where the dart lands. The game ends when the player’s points become less than or equal 0. After each throw display how many points are needed to reach zero. At the end display how many darts were thrown to reach zero or below.  
     
   *NB: This is different from real darts. There is no need to get to 0 exactly.*

points = 101  
darts = 0  
  
while points > 0:  
 print(“Points left:”, points)  
 score = int(input(“Enter the score on this throw: ”))  
 points = points - score  
 darts = darts + 1  
  
print(“Game won! Darts thrown:”, darts)

***See Program L2 WS2b Ex4 in Sample programs folder***