2810ICT Week1 PythonLab

1. Problem: Write a Python program that prompts to read a cost of an item (less than or equal to one dollar), gives the number of 50 cent, 20 cent, 10 cent, 5 cent and 1 cent coins the buyer would receive if they handed over one dollar. You must minimise the number of coins in the change..

Input: 50   
Output: 10000   
Input: 66   
Output: 01110

Solution:

cost = input("input cost between 0 and 100 cents: ")  
  
coins = []  
  
change = 100 - int(cost)  
  
fiftyc = change/ 50  
change = change % 50  
  
twentyc = change / 20  
change = change % 20  
  
tenc = change / 10  
change = change % 10  
  
fivec = change / 5  
change = change % 5  
  
onec = change  
  
print(int(fiftyc),int(twentyc),int(tenc),int(fivec),int(onec))