1.Write a python program to demonstrate the use of lists, dictionaries, and tuples by implementing a simple shopping cart system.

# Vars

budget = 200; # Budget

total = 0; # Total price

prices = { # Price list

"cola":22,

"chips":18,

"headset":800,

"pencil":5

}

cart = [] # Shopping cart

cmd = input("""

====Item=====Price====

cola : 22 $

chips : 18 $

headset : 800 $

pencil : 5 $

Enter order:""")

while cmd in prices.keys():

cart+=[(cmd,prices[cmd])]

total+=total+prices[cmd]

cmd = input("Enter order: ")

if cmd not in ["","\t","\n"]:

print (cmd," is not available")

if cart != []:

print("you cart contains :\n")

for item in cart:

print (item[0],"\t:",item[1]," $")

print(“\nTotal price:”, total, “$")

# Check if the user can afford the items in the cart

if total <= budget:

print("\nYou can afford all the items! Your remaining budget:", budget - total,"$")

else:

print("\nYou cannot afford all the items! You are short:", total - budget,"$")

else:

print ("Your cart is empty")

input("\nPress enter to exit...")