

Python Core

Training Assignments

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| Program Code |  |
| Issue/Revision | x/y |
| Effective date | 26/Jun/2023 |

**Assignment Day 04**

1. **Implement the algorithm from description (String: 5-3):**

Professional Appliance Service, Inc. offers maintenance and repair services for household appliances. The owner wants to give each of the company’s service technicians a small handheld computer that displays step-by-step instructions for many of the repairs that they perform. To see how this might work, the owner has asked you to develop a program that displays the following instructions for disassembling an Acme laundry dryer:

* Step 1: Unplug the dryer and move it away from the wall.
* Step 2: Remove the six screws from the back of the dryer.
* Step 3: Remove the dryer’s back panel.
* Step 4: Pull the top of the dryer straight up.

During your interview with the owner, you determine that the program should display the steps one at a time. You decide that after each step is displayed, the user will be asked to press the Enter key to see the next step. Here is the algorithm in pseudocode:

Display a starting message, explaining what the program does.

Ask the user to press Enter to see step 1.

Display the instructions for step 1.

Ask the user to press Enter to see the next step.

Display the instructions for step 2.

Ask the user to press Enter to see the next step.

Display the instructions for step 3.

Ask the user to press Enter to see the next step.

Display the instructions for step 4.

Diagram

Description automatically generated

* startup\_message. This function will display the starting message that tells the tech- nician what the program does.
* step1. This function will display the instructions for step 1.
* step2. This function will display the instructions for step 2.
* step3. This function will display the instructions for step 3.
* step4. This function will display the instructions for step 4.

1. **Implement the algorithm from description:**

Uses keyword arguments to call the reverse\_name(first\_name, last\_name) function

1. **Handle exception for code below (Exception: 6-28):**

# This program calculates gross pay.

def main():

# Get the number of hours worked.

hours = int(input('How many hours did you work? '))

# Get the hourly pay rate

pay\_rate = float(input('Enter your hourly pay rate: '))

# Calculate the gross pay

gross\_pay = hours \* pay\_rate

# Display the gross pay

print(f'Gross pay: ${gross\_pay:,.2f}')

# Call the main function.

if \_\_name\_\_ == '\_\_main\_\_':

main()

1. **What will the following code display?**

try:

x = float('abc123')

print('The conversion is complete.')

except IOError:

print('This code caused an IOError.')

except ValueError:

print('This code caused a ValueError.')

print('The end.')

1. **What will the following code display?**

try:

x = float('abc123')

print(x)

except IOError:

print('This code caused an IOError.')

except ZeroDivisionError:

print('This code caused a ZeroDivisionError.')

except:

print('An error happened.')

print('The end.')