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CPE11S1/PLD-007

Hands-on Activity 1.2: Data Types and Pseudo-code

Additional Activities:

- 1.) **Design a pseudocode for computing the area of a rectangle. The formula for computing the area of a rectangle is $A = \frac{1}{2} (b)(h)$.**

Pseudocode:

Step 1: Start

Step 2: Input number1 as “base”, Input number2 as “height”

Step 3: Area = $\frac{1}{2}$ * base * height

Step 4: Print “The area of a rectangle is”

Step 5: End the operation

- 2.) **Design a pseudocode for some common ATM machine transactions such as:**

- **Withdrawals**

Pseudocode:

Step 1: Start

Step 2: Print “Your current balance is”

Step 3: Print “Amount to withdraw”

Step 4: IF the amount \leq balance then proceed to step 5, else proceed to step 6

Step 5: Balance = balance - amount to withdraw

Step 6: Print “Insufficient balance to withdraw”

Step 7: Print “Thank you for using this machine!”

Step 8: End

- **balance inquiries**

Pseudocode:

Step 1: Start

Step 2: Set a initial balance = 0

Step 3: Display “Your current balance is: ”

Step 4: Print “Thank you for using this machine”

Step 5: End

- **fund transfer**

Pseudocode:

Step 1: Start

Step 2: Set a initial balance = 0

Step 3: Display "Your current balance is:"

Step 4: Display "Enter a number to proceed on transfer:"

Step 5: Display "Amount of balance to transfer:"

Step 6: IF the transfer amount \leq balance then proceed to step 7, or else step 9

Step 7: Balance = balance - transfer amount

Step 8: Print "Transferring balance is successfully transferred, thank you for using this machine"

Step 9: Display "Insufficient balance"

Step 10: End

- **PIN change**

Pseudocode:

Step 1: Start

Step 2: Set current PIN = 1234

Step 3: IF entered PIN=current PIN, then proceed to step 4, or else proceed to step 7

Step 4: Display "Enter a new pin"

Step 5: Accept New pin

Step 6: Print "PIN changed successfully, thank you for using this machine!"

Step 7: Display "Incorrect input PIN, pls try again"

Step 8: Go to step 3

Step 9: End

Honor Pledge:

"I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own."

