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Course and Section: CpE007-CpE11S1

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=(½) (b)(h).

Start

Get base

Get height

Area of a rectangle = (1/2) \* base \* height

Output Area of a rectangle

Stop

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

* **Withdrawals**

Start

Get account\_balance

Get withdrawal\_amount

If withdrawal\_amount > account\_balance

Output “Insufficient balance”

Else

account\_balance = account balance – withdrawal\_amount

Output account\_balance

Stop

* **Balance inquiries**

Start

Get account\_balance

Output account\_balance

Stop

* **Fund transfer**

Start

Get source\_balance

Get target\_balance

Get transfer\_amount

If transfer\_amount > source\_balance

Output “Insufficient balance”

Else

source\_balance = source\_balance – transfer\_amount

target\_balance = target\_balance + transfer\_amount

Output source\_balance

Output target\_balance

Stop

* **PIN change**

Start

Get old\_pin

Get new\_pin

Get confirm\_pin

If new\_pin == old\_pin

Output “PIN changed”

Else

Output “PIN change failed”

Stop