FLOWCHART 1:

END

Is the package marked as urgent?

Deliver The Packages

Label fragile

Proceed with standard delivery

No

Yes

Prioritize Delivery

Proceed to sorting

Is the packet marked as fragile?

Sort Packages

Fragile Item Handling

Package Received

START

No

Yes

Check Package Type

FLOWCHART 2:

Insufficient Funds

No

Yes

Select Product

Display Product

START

Invalid Code

Enter Selected Product Code

END

Display Thank You

Display Error

Dispense Product

Insert Payment

Display Error

PSEUDOCODE 1:

START

// Input three numbers

INPUT num1

INPUT num2

INPUT num3

// Initialization

SET smallest = num1

// Compare num2 with the current smallest

IF num2 < smallest THEN

SET smallest = num2

ENDIF

// Compare num3 with the current smallest

IF num3 < smallest THEN

SET smallest = num3

ENDIF

// Output the smallest number

OUTPUT "The smallest number is:", smallest

END

PSEUDOCODE 3:

START

// Input two numbers

PRINT “Enter any two numbers”

INPUT num1

INPUT num2

// Input an operator

PRINT "Enter an operator (\* for multiplication, / for division):"

INPUT operator

// Process: Check which operation to perform

IF operator IS "\*" THEN

SET result TO num1 \* num2

PRINT "The result of multiplication is: " result

ELSE IF operator IS "/" THEN

// Process: Check if the second number is zero

IF num2 IS NOT 0 THEN

SET result TO num1 / num2

PRINT "The result of division is: " result

ELSE

PRINT "Error: Division by zero is not allowed."

ENDIF

ELSE

PRINT "Error: Invalid operator. Please enter \* or /."

ENDIF

END

ALGORITHM 1:

1. - Input number `n`.

2. - If `n` is less than.

- Display "Not Prime."

3. - If `n` has any divisors other than 1 and itself.

- Start with the number 2.

- If `n` is divisible by 2.

- Display "Not Prime."

4. - Keep looking for other divisors.

- Start with the 3.

- If ‘n’ can be divided evenly by 3 (without a remainder).

- If it can be divided by 3.

- Display “Not Prime”

- Continue: 4, 5, 6, and so on, until you reach the square root of the number.

- If they divide evenly into your number.

- Display “Not prime”.

5. - If none of them divide evenly.

- Display “Prime”.

ALGORITHM 2:

1. - Enter a day number between 1 and 365, ‘n’.

2. - To find out which day of the week it is:

- Subtract 1 from ‘n’

- Divide the result by 7 to determine how many complete weeks have passed.

- Take the remainder of the division.

- This remainder gives the day of the week as a number:

- 0 = Monday

- 1 = Tuesday

- 2 = Wednesday

- 3 = Thursday

- 4 = Friday

- 5 = Saturday

- 6 = Sunday

3. – According to the remainder, display the correct day of the week.

ALGORITHM 3:

1. - Input two numbers: a & b.

2. - If b = 0, then the GCD is a.

- Display ‘a’.

- Stop the algorithm.

3. - If b is not = 0:

* Calculate the remainder when a is divided by b.
* Set a to the value of b.
* Set b to the value of remainder.

4. - Once b becomes 0, the value of a is the GCD of the original two numbers. Print a as the GCD.