Pseudocode

Question 1:

1. Start
2. Input num1
3. Input num2
4. Input num3
5. IF num1 < num2 and num1< num3

     Print “num1 is the smallest”

1. ELSE IF num2 < num1 and num2 < num3

     Print “num2 is the smallest “

1. ELSE

     Print “num3 is the smallest”

1. END

Questions 3:

1. Start
2. Input num1
3. Input num2
4. Set result = 0
5. Print “Enter ‘\*’ for Multiplication or input ‘/’ for Division"
6. Input operator
7. IF operator == ‘\* ‘

result = num1\*num2

1. ELSE IF operator == ‘/’

result = num1/num2

1. ELSE

Print “Invalid selection”

1. Print result
2. End

Algorithm

Question 1:

1. Start
2. Ask user a number
3. Set i=2
4. Check if the number == 1, if yes then go to step 8, else go to step 5.
5. Check If number % i == 0, then go to step 8, else go to step 6
6. Increase i by 1
7. If i > sqrt of number, then go to step 9, else go to step 5
8. Display “number is not a prime number”
9. Display “number is a prime number”
10. End

Question 2:

1. Start
2. Ask the user for day number
3. Set Remainder = (day number % 7)
4. If remainder == 0, Print “Sunday”
5. If remainder == 1, Print “Monday”
6. If remainder == 2, Print “Tuesday”
7. If remainder == 3, Print “Wednesday”
8. If remainder == 4, Print “Thursday”
9. If remainder == 5, Print “Friday”
10. If remainder == 6, Print “Saturday”
11. End

Question 3:

1. Start
2. Ask the user for num1
3. Ask the user for num2
4. Set r = 0
5. If b = 0, if true, then go to step 9, else go to step 6
6. r = a % b
7. Change a to b and change b to r
8. Check if b == 0, if true, then go to step 9, else go to step 6
9. Print “a is the GCD of both numbers”
10. End

Flowchart

Question 1:

Start

Receiving packages

Sorting packages

Delivering packages

End

Receiving Sorting

Packages Package

Inspect the package is the item

Is it damaged? Fragile?

No

No Yes yes

Mark the Mark the

Return the package package package

to the sender non-fragile fragile

EXIT EXIT

Delivering

Packages

Is it an

Urgent delivery Add it to regular delivery

List

Add it to urgent

delivery list

Exit

Question 2

Start

User Input

Selecting Product

Accepting Payment

Dispensing the

product

End

User Selecting

Input Product

Input the is the selected

Selection Product is available

Yes No

Is the selection Print “Product

Valid not available

No

Yes

Print Exit

“Invalid selection”

Exit

Accepting

Payment

Display the

Amount

take the

bills

Are the No Print Return the

Bills valid? Invalid Bills bills

Yes

Are the funds No Print

Sufficient? Insufficient Funds

Yes

Are the funds Yes Return the

Excess? excess funds

No

Exit

Dispensing the

Product

Search for product

Code in the inventory

Dispense the product

Exit