Question 1

1. Algorithm:

* Display “Welcome! How may I help you”?
* Display menu
* Read order
* Read add on
* Display waiting time
* Get cash

1. Pseudo code:

* Start
* Display “Welcome! How may I help you”?
* Display menu
* Read order
* If add on

Then read add on

Display waiting time

Else

Display waiting time

* Get cash
* End

1. Flowchart:

start

If add on

Read order

Display menu

Display “Welcome. How may I help you?”

No

Yes

Get cash

Read add on

Question 2

1. Algorithm:

* Display “Welcome”
* Display “Enter pin:
* Read pin
* Process pin
* If pin is correct

Then display “Enter amount”

Read amount

Process account balance

If account balance is sufficient

Then Display “transaction successful”

Else

Display “Balance insufficient”

Else

Display “Try again”

1. Pseudo code:

* Start
* Display “Welcome”
* Display “Enter pin:
* Read pin
* Process pin
* If pin is correct

Then display “Enter amount”

Read amount

Process account balance

If account balance is sufficient

Then Display “transaction successful”

Else

Display “Balance insufficient”

Else

Display “Try again”

* End

1. Flowchart:

Read pin

Display “Welcome”

Display “Enter pin”

No

Display “Try again”

If pin is correct

Yes

Display “Enter amount

Display “Transaction successful

Display “balance insufficient”

No

Yes

If account balance is sufficient

Read amount

Question 3

1. Algorithm:

* Display “Enter 3 numbers”
* Read numbers
* If number1>number2

Then IF number 1>number3

Then display “greatest number is”, number1

Else

Then display “greatest number is”, number3

Else

Then IF number 2>number3

Then display “greatest number is”, number2

Else

Then display “greatest number is”, number3

1. Pseudo code:

* Start
* Display “Enter 3 numbers”
* Read numbers
* If number1>number2

Then IF number 1>number3

Then display “greatest number is”, number1

Else

Then display “greatest number is”, number3

Else

Then IF number 2>number3

Then display “greatest number is”, number2

Else

Then display “greatest number is”, number3

* End

1. Flowchart:

Read numbers

Display “Enter 3 numbers

display “greatest number is”, number3

No

No

If

number1>number2

IF number 2>number3

yes Yes

display “greatest number is”, number3

No

display “greatest number is”, number2

IF number 1>number3

Yes

display “greatest number is”, number1

Question 4

Algorithm:

* Start
* Display “Enter number 1-12”
* Read number
* IF number == 1

Print “January”

ELSE IF number == 2

Print “February’’

ELSE IF number == 3

Print “March’’

ELSE IF number == 4

Print “April’’

ELSE IF number == 5

Print “May’

ELSE IF number == 6

Print “June’’

ELSE IF number == 7

Print “July’’

ELSE IF number == 8

Print “August’’

ELSE IF number == 9

Print “September’’

ELSE IF number == 10

Print “October’’

ELSE IF number == 11

Print “November’’

ELSE

Print “December’’

* End

QUESTION 5

Pseudo code:

* Start
* Display “Enter number 1”
* Read num1
* Display “Enter number 2”
* Read num2
* Display “Enter operator (+/-) ”
* Read op
* IF op == +

Print num1 + num2

ELSE

Print num1 – num2

* End

QUESTION 6

Start

Check for available parts

Read Order

NO

Reorder parts

YES

End

deliver

Final inspection =1

Installing and assembling parts

No

Rework

Yes

/

QUESTION 7

Algorithm:

* Start
* Display “Enter number 1”
* Read num1
* Display “Enter number 2”
* Read num2
* Display “Enter operator”
* Read op
* IF op == +

Print num1 + num2

ELSE IF op == -

Print num1 – num2

ELSE IF op == \*

Print num1 \* num2

ELSE IF op == /

Print num1 / num2

ELSE

Print num1 % num2

* End

QUESTION 9

A .gitignore file is used in Git to specify which files or directories should be ignored by Git when performing operations. It is used to:

* Prevent unnecessary files from being tracked
* Reduce repository size
* Improve performance
* Enhance security

Question 10

|  |  |
| --- | --- |
| ALGORITHM | PSEUDO CODE |
| 1. It is a step-by-step procedure for solving problem. | It is a simplified, high-level description of an algorithm. |
| 1. It involves informal language which makes non-experts easier to understand. | It involves technical keywords which make non-experts difficult to understand. |