LAB TASKS

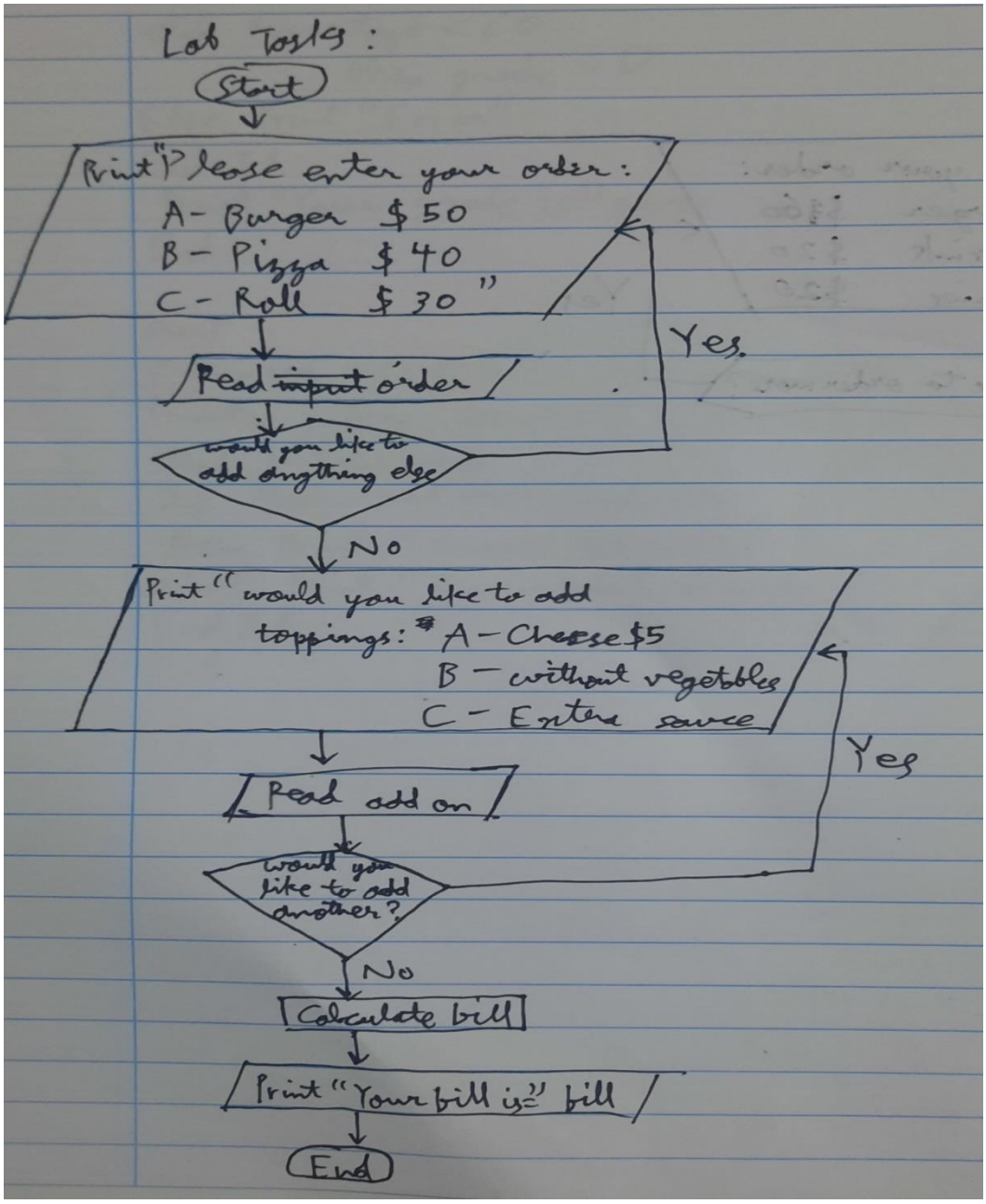
Q1) Pseudocode

```
Start
Print "enter your order:
      A-burger $60
      B-pizza   $40
      C-roll     $30"
Read order
Print "Would you like to order again"
  Read decision
 if decision = true
   Read order
   Else decision = false then
    Print "Would you like to add anything? :
          A-Cheese $5
          B-extra sauce $1
          C-no vegetables"
endif
If input = true then
  Read add on
  Print "would you like to add a different addon?"
  If newaddon=true then
  Read addon
  Else if newaddon= false then
  Calculate bill=order + addon
Endif
Else if input=false
   Calculate bill= order
endif
Print "your bill is=" bill
end
```

Algorithm

1) Ask customer to make an order
2) Ask if customer would like to change their order
3) If yes then take customers new order

4) If no then ask if customer would like an addon
5) If yes then ask customer to select an addon
6) Ask customer if they would like to change addon
7) If yes then ask customer to select new addon
8) if no then calculate bill
9) display bill to the customer



Q2) Pseudocode

start

print “please enter your password”

read password

if password==ogpassword

print “enter money to be deposited”

read deposit

account= money+deposit

Print “your new balance is=” account

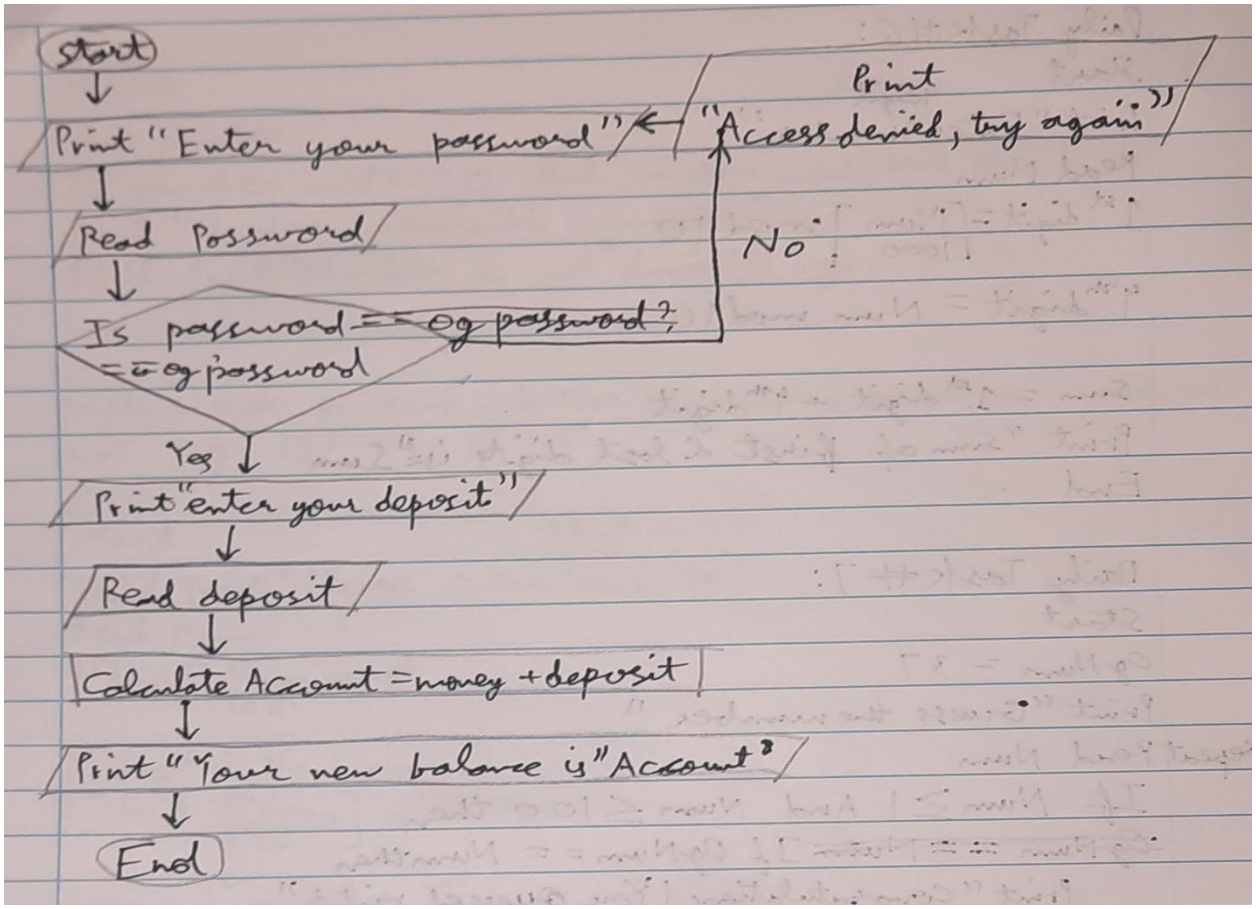
else print “access denied”

endif

end

Algorithm:

1) ask for password
2) check password again ogpassword
3) if password==ogpassword
4) ask for money to be deposited
5) deposit money entered
6) if password=/=ogpassword
7) deny access



Q3) Pseudocode

Start

Print “enter 3 numbers”

Read x,y,z

If x>y And x>z then

Print x “is the largest number”

Else if y>x And y>z then

Print y “is the largest number”

Else if z>x And z>y then

Print z “is the largest number”

Else if x=y=z then

Print “all numbers are equal”

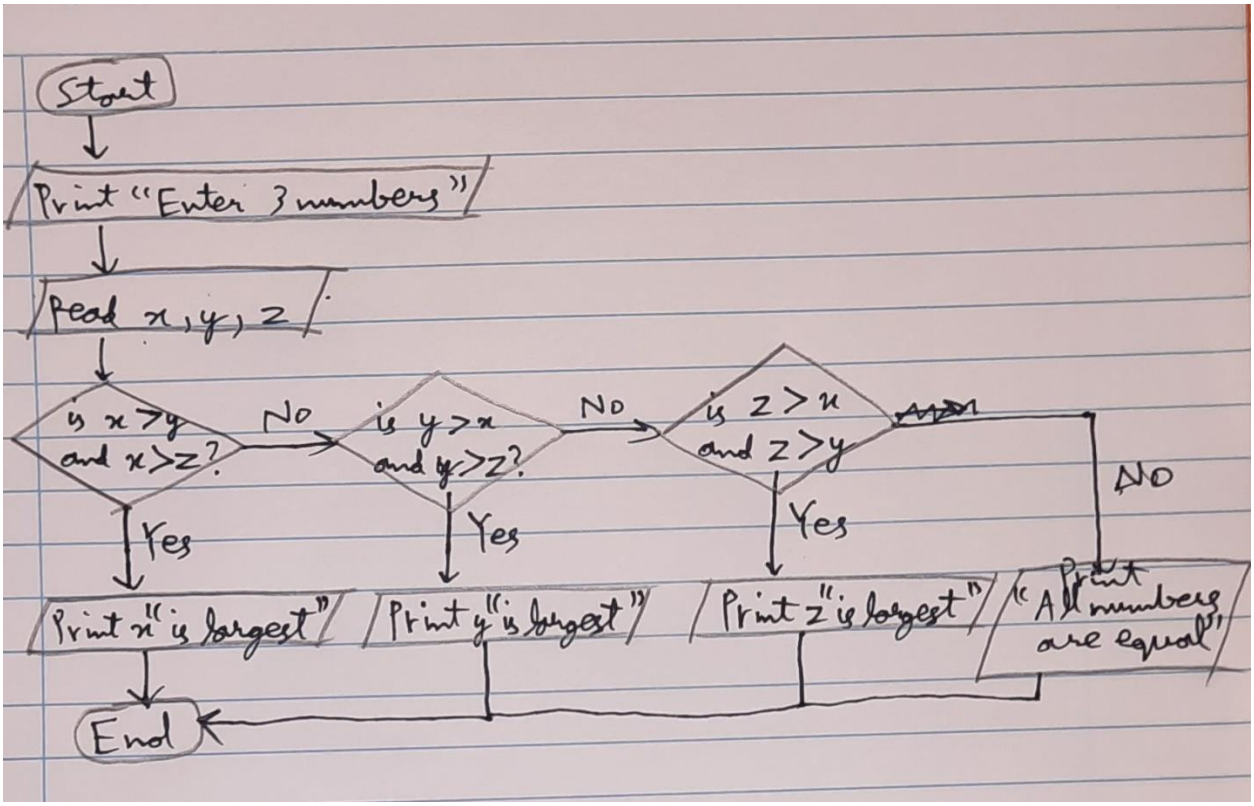
Else print “error”

Endif

end

Algorithm:

1) ask user to enter three numbers
2) read 3 numbers
3) compare them to each other
4) declare which number among the three is greatest in comparison to the other 2



Q4 Algorithm:

1) Assign numbers 1-12 to the 12 months of the year
2) ask user to enter a number from 1-12
3) display equivalent month from jan-dec
4) otherwise print “error”

Q5 Pseudocode:

Start

Print “enter a number”

Read num1

Print “enter a second number”

Read num2

Print “would you like to add or subtract?”

Read operator

If operator = + then

Sum=num1 + num2

Print sum

Else if operator = - then

Subtract= num1 – num2

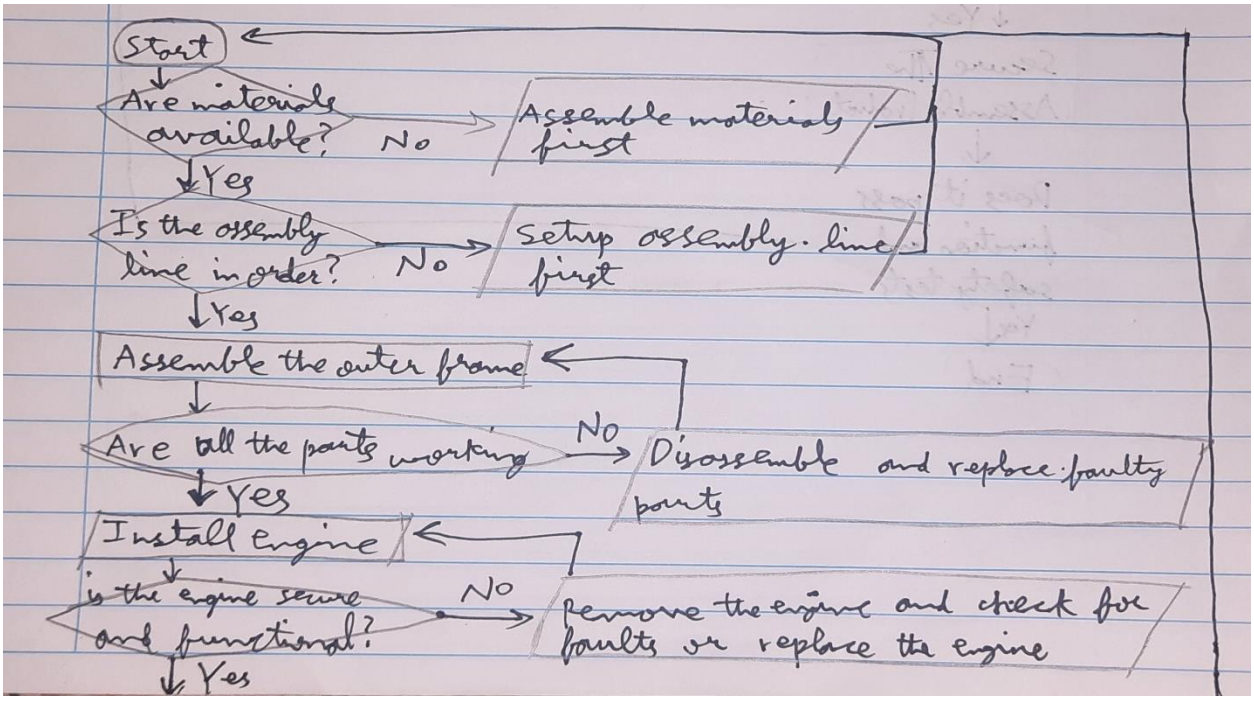
Print subtract

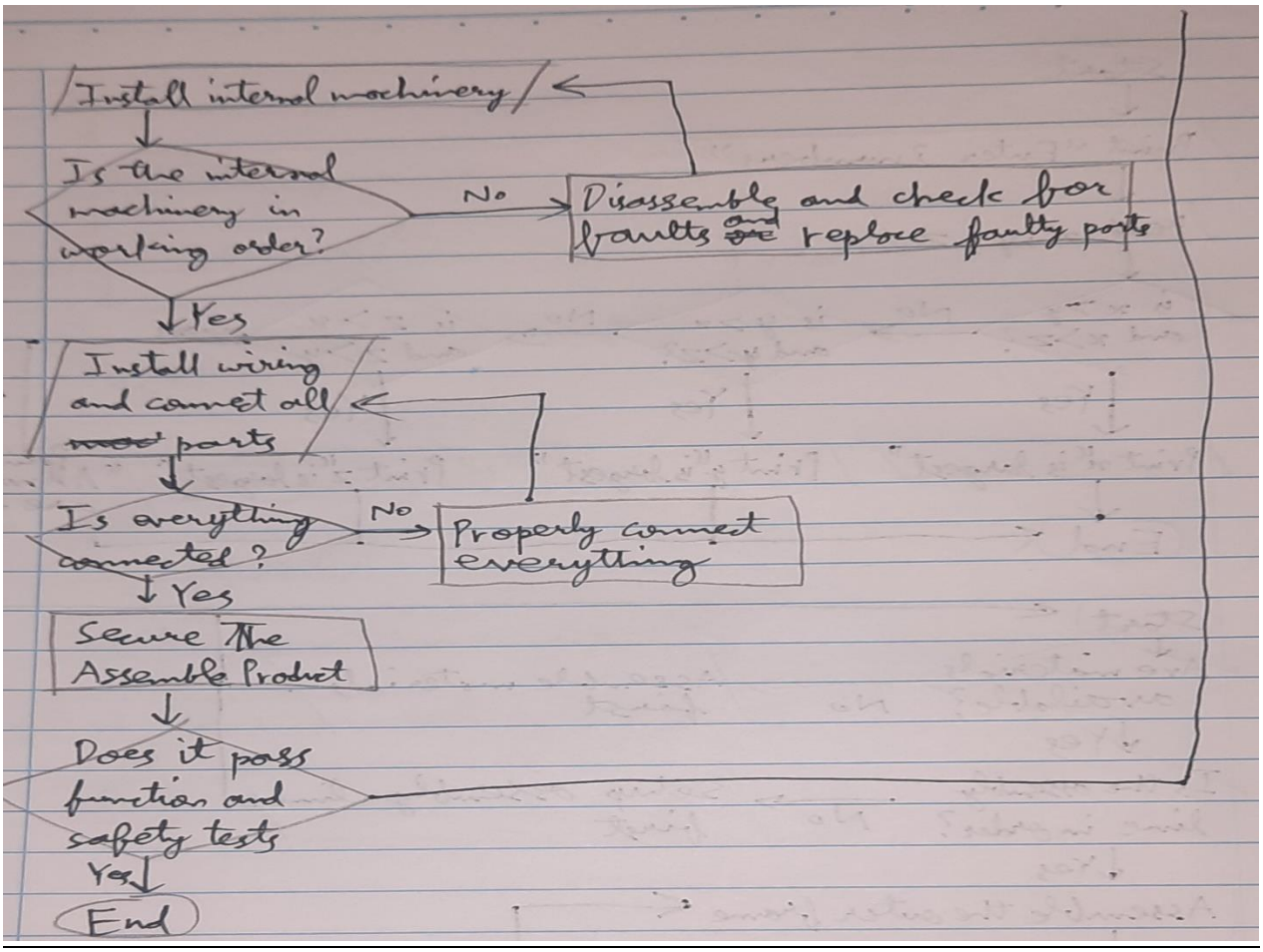
Else print “syntax error”

Endif

end

Q6)


Start
Are materials available?
No
Assemble materials first
Yes
Is the assembly line in order?
No
Setup assembly line first
Yes
Assemble the outer frame
Are all the parts working
No
Disassemble and replace faulty parts
Yes
Install engine
is the engine secure and functional?
No
Remove the engine and check for faults or replace the engine
Yes


Install internal machinery
Is the internal machinery in working order?
No
Disassemble and check for faults and replace faulty parts
Yes
Install wiring and connect all parts
Is everything connected?
No
Properly connect everything
Yes
Secure the Assemble Product
Does it pass function and safety tests
Yes
End

Q7) Algorithm

1) ask user to input 2 numbers
2) ask user to input the operator of the operation they wish to process
3) if user enters + then add the 2 numbers and print the result
4) if the user selects – then subtract the 2 numbers and print the result
5) if the user selects * then multiply the 2 numbers and print the result
6) if the user selects / then divide the 2 numbers and print the result
7) print error if input operator invalid

Q9) The purpose of gitignore files is to ensure that certain files not tracked by Git remain untracked.

Q10) An Algorithm is used to show the entire procedure of a program in a logical step by step manner while pseudocode is to display, in plain english, the outline of what a code to be programmed is going to look like.