*Lab task 1:Processing A Customer’s  
Order At A Restaurant*

Algorithm:

**Step#1:Start.**

**Step#2:Customer calls the waiter.**

**Step#3:Let the waiter note down customer’s order and if he asks for special add on note that down.**

**Step#4:Wait for the food to be ready.**

**Step#5:Serve the order to the customer.**

**Step#6:Present the bill once the customer finishes their food.**

**Step#7:Take the bill and Thank the customer for visiting.**

**Step#8:End**

Pseudo Code:  
  
START

Input:  
Read order 1,2,3 etc from the customer.  
  
  
Process:

Take the order  
prepare the bill   
serve order

Conditional statements:

Process the bill which is =order 1 +order 2 +order 3  
If customer asks for add on  
Bill=order 1+order 2 +order 3 +add on  
Print the bill  
  
END

**Flowchart:**

**Process:  
Prepare the order**

**Input:  
Take order**

**Process:  
Prepare the bill and serve food  
Bill=order1+order2+order3**

**If no add on**

**Process:  
Bill=order1+order2+order3+add on**

False

True

**Output:  
Serve order  
Serve the bill**

**Lab task 2 Handling Customer’s Deposit Transaction:**

**Algorithm:  
  
Step#1:Start**

**Step#2:Customer enter the bank.**

**Step#3:They start depositing the cash at the counter.**

**Step#4: Check for account validity.**

**Step#5:If account valid proceed else cancel the deposit.**

**step#6:If amount less than 1000 cancel deposit else proceed.**

**Step#7:Show new account balance.**

**Step#8:End  
  
  
PSEUDO CODE:**

**Start:**

**Input:  
deposit cheque.  
  
Process:  
Read the cheque and deposit the cash  
  
  
Conditional statements:  
Check account validity:  
if account valid proceed  
else cancel the deposit  
If amount less than 1000 cancel the deposit  
else proceed  
Print the account balance  
  
END**

**Lab test#3: Which of the three numbers is greatest**

**Algorithm:  
  
Step#1: Start  
  
Step#2: Choose numbers : no.1, no.2 , no.3  
  
Step#3:If no.1> no.2 and no.3 then no.1 greatest number.  
  
Step#4: If no.2> no.1 and no.3 then no.2 greatest number.  
  
Step#5: If no.3>no.1 and no.2 then no.3 greatest number.  
  
Step#6:Print greatest number.  
  
Step#7:End  
  
  
  
Pseudo code:  
  
Start:  
//Input:**

**Print “insert three numbers”**

**Input:No.1  
Input:no.2  
Input:no.3  
greatest number  
//Process:**

**Determine greatest number  
//CONDITIONAL STATEMENTS:**

**If no.1>no.2 and no.3 then print no.1 as greatest number  
if no.2>no.1 and no.3 then print no.2 as a greatest number  
if no.3>no.2 and no.1 then print no.3 as greatest number  
  
END.  
  
  
Lab task#4:  
  
Algorithm:**

**Step#1: Start  
Step#2:Enter any number between 1 and 12.  
Step#3: 1 represent January, 2 represents February,3 represents March, 4 represents April, 5 represents May, 6 represents June , 7 represents July, 8 represents August,9 represents September , 10 represents October, 11 represents November , 12 represents December.  
Step#4:Print month  
Step#5:End**

**Lab TASK#5:** **Create pseudocode a small calculator which only does ‘+’ or ‘-‘Operations.**

**Pseudo code:**

**Start:  
  
//Input/output:  
Print “insert first number”  
input no.1  
Print “insert second number”**

**Input no.2  
Print ”insert operator”  
input operation(+ or -)  
//process:  
process the operation and show result  
  
//Conditional statements:**

**If operator is “+” perform no.1+no.2.**

**Else operator is “-“ perform no.1-no.2.  
else “any other operator” cancel the process.  
Print the result**

**END.**

**Lab Task#6: Flowchart for assembling a car:**

**Flowchart:**

Start

Input:  
Order for a car comes

Get the raw material

**False**

Is it right?

**Assemble the car frame**

**True**

False

Is it right

**Assemble the engine**

True

False

Is it fixed right?

**Assemble the transmission system**

True

Are they fixed right?

**Install body parts(doors,tyres,lights)**

Is the quality okay

**Assemble interior parts(seats,dashboard,belts)**

Is it the right color?

**Paint the car**

**Pass?**

**Run the final tests**

**Take the car to the dealership**

**Order complete**

**END**

**Lab Task#7:** **Implement an algorithm for making a simple calculator with all the operators (+,-,\*,/,%):**

**Algorithm:**

**Step#1: Sart.**

**Step#2: Take input of number 1.  
Step#3: Take input of number 2.  
Step#4: Take input of any operation (+,-,/,\*,%).**

**Step#5:Calculate the result.  
Step#6: If operator is “+” do the function “no.1 +no.2”.  
Step#7: Else if operator is “-“ do the function “no.1-no.2”.**

**Step#8: Else if operator is “\*“ do the function “no.1\*no.2”.  
Step#9: Else if operator is “/” check if second number is “0”  
if “0” display function is not possible , if not “0” process “no.1 /no.2”.  
Step#10: Else if operator is “%” check if second number is “0”  
if “0” display function is not possible , if not “0” process “no.1 %no.2”.  
Step#11: Display result.  
Step#12:End.**

**Lab Task#9: Why we use .gitignore?**

**.gitignore:**

**The reason we use “ .gitignore ” to specify which files are supposed to be skipped and ignored in a Git repository. These files are not included in any commits and are not tracked by Git. It will also not be shown in untracked files. It is used to add sensitive and private information. It is a really essential and important part of Git repositories.**

**Lab Task#10:** **Difference between Algorithm and Pseudocode?**

**1)Algorithm is a step by step process to solve a problem while pseudo code is a human readable description of algorithm.**

**2) Algorithm show the logical sequence of steps to solve a problem while Pseudo code presents the algorithm in a way to code it easily.  
3)Algorithm can be represented in many ways but Pseudo code follows a specific syntax pattern.**