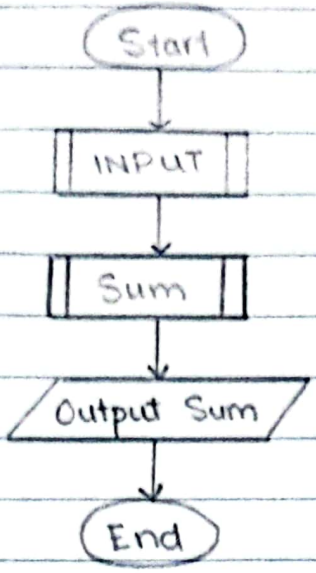
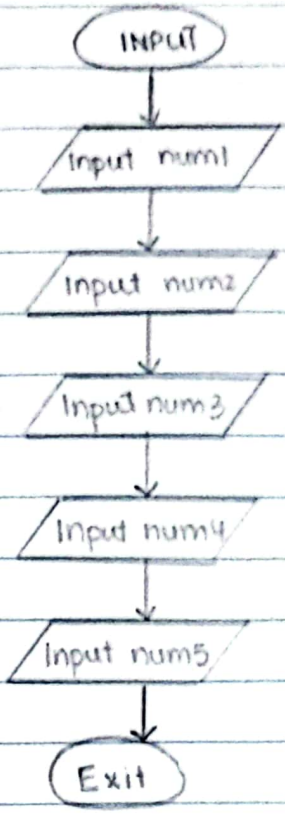
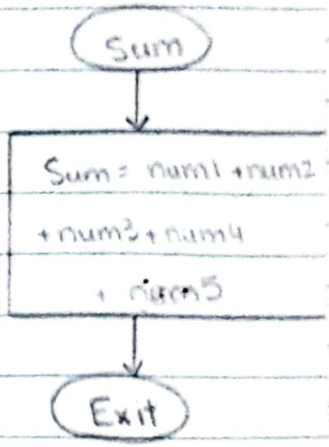
Date: 28/08/2024

Flowchart Problems

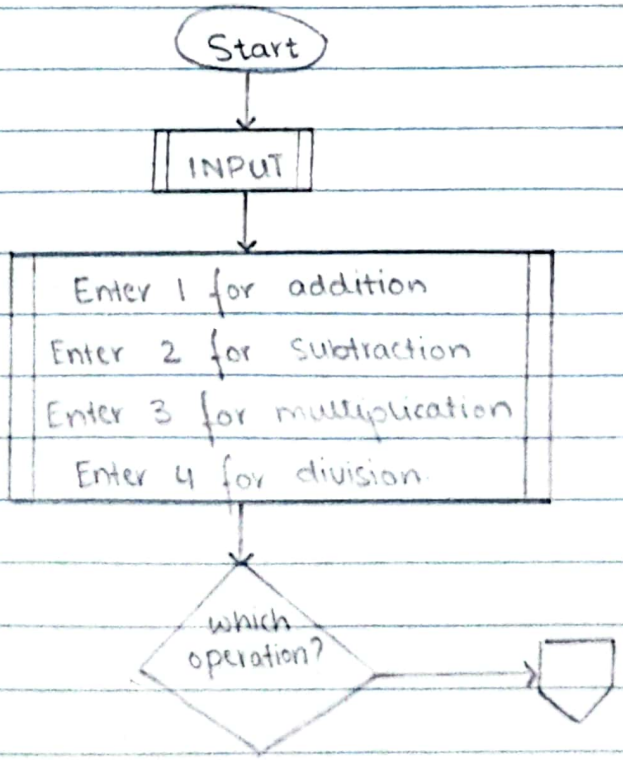
Q1)

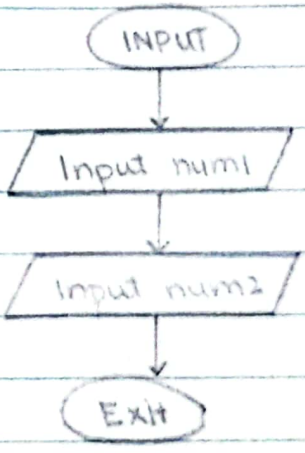


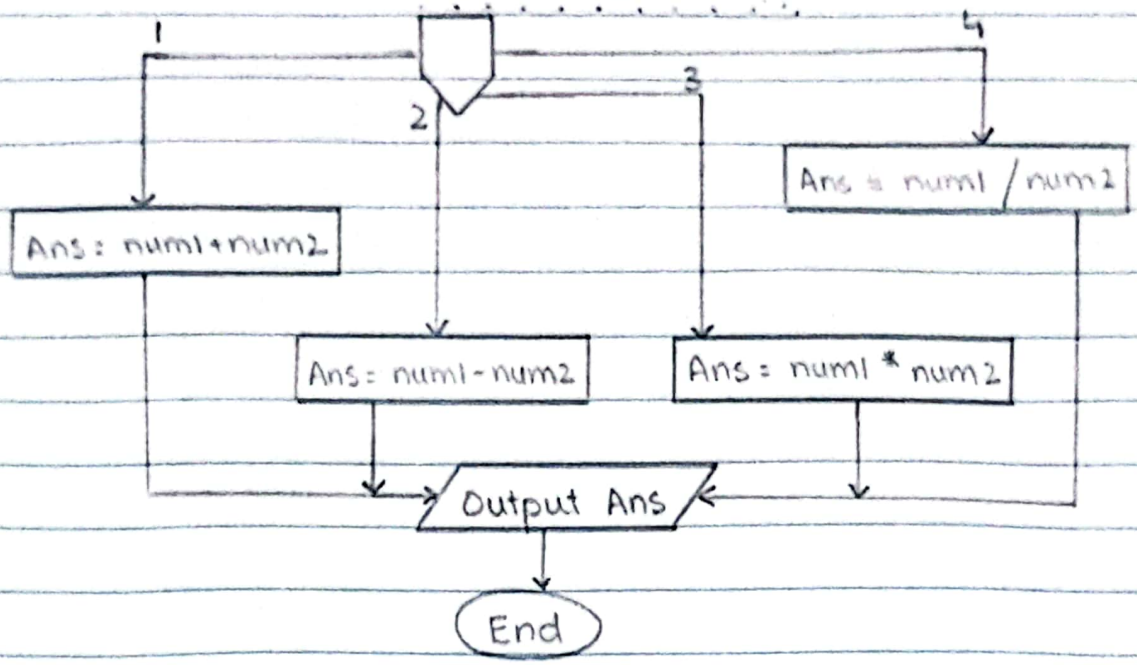




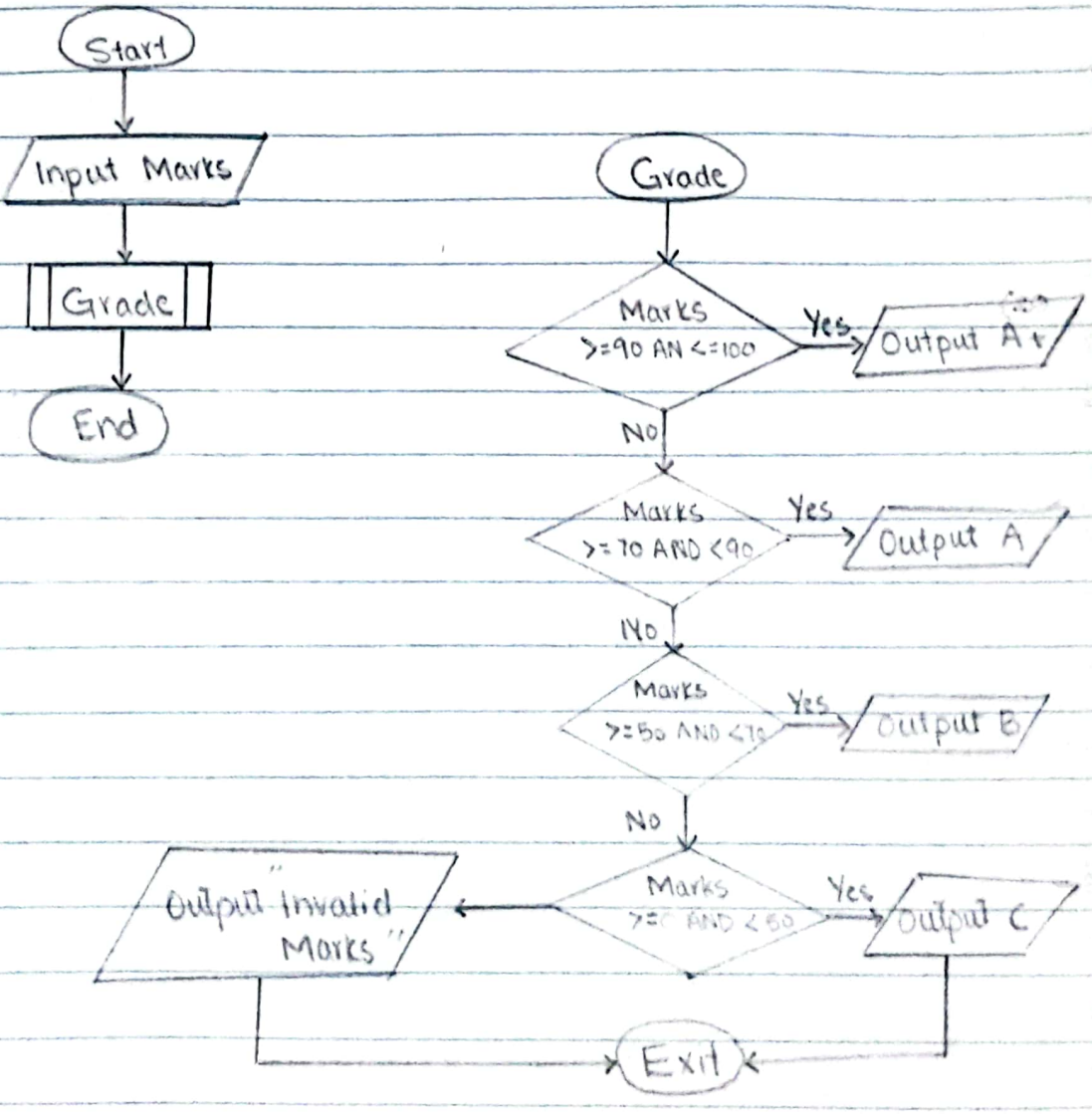
Q2)



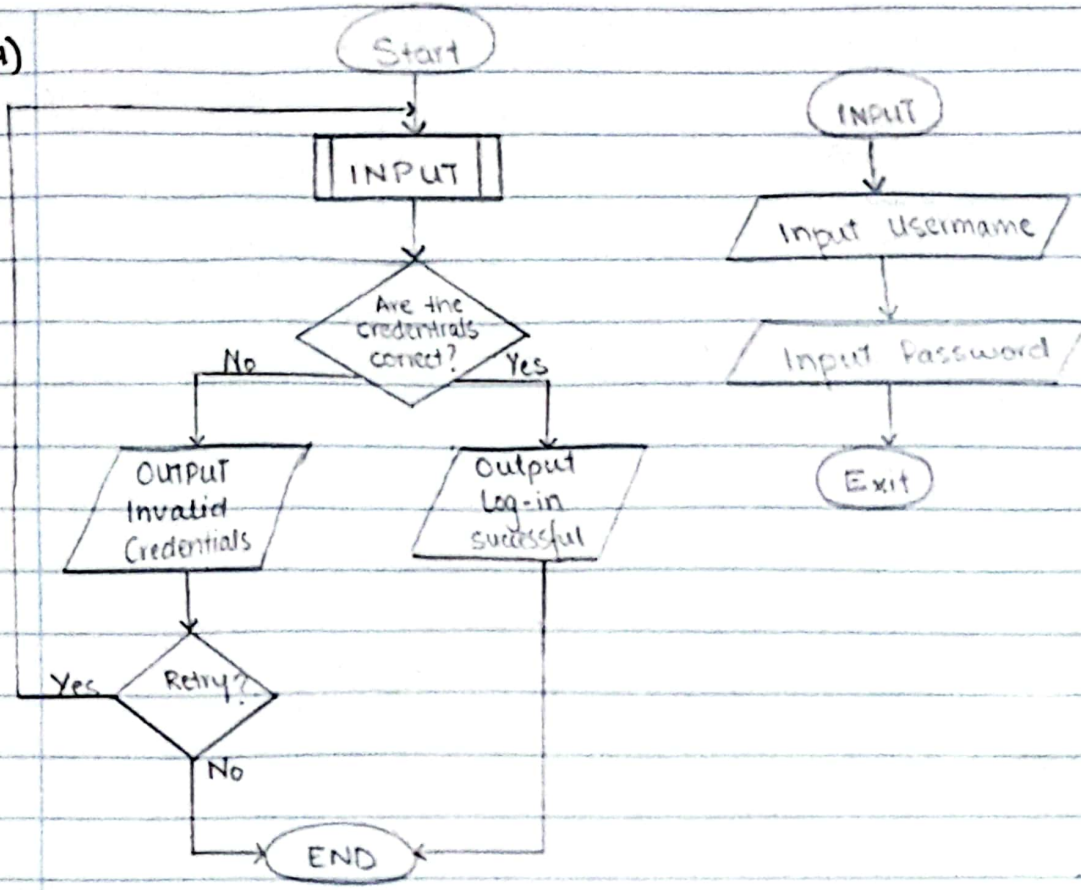



1
2
3
4
Ans = num1 + num2
Ans = num1 - num2
Ans = num1 * num2
Ans = num1 / num2
Output Ans
End

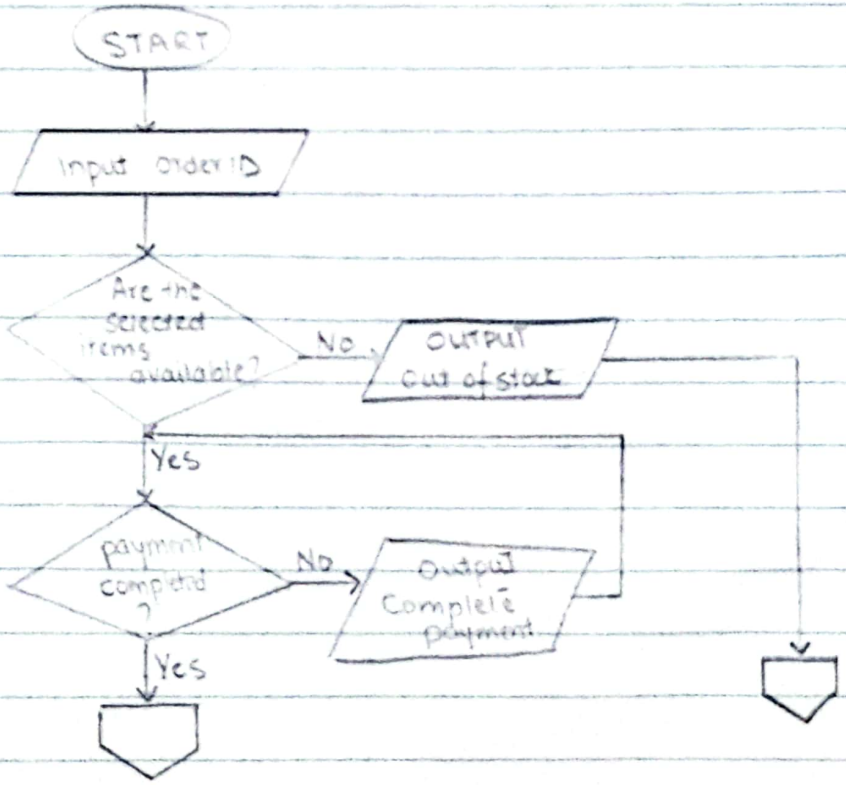
Q3)

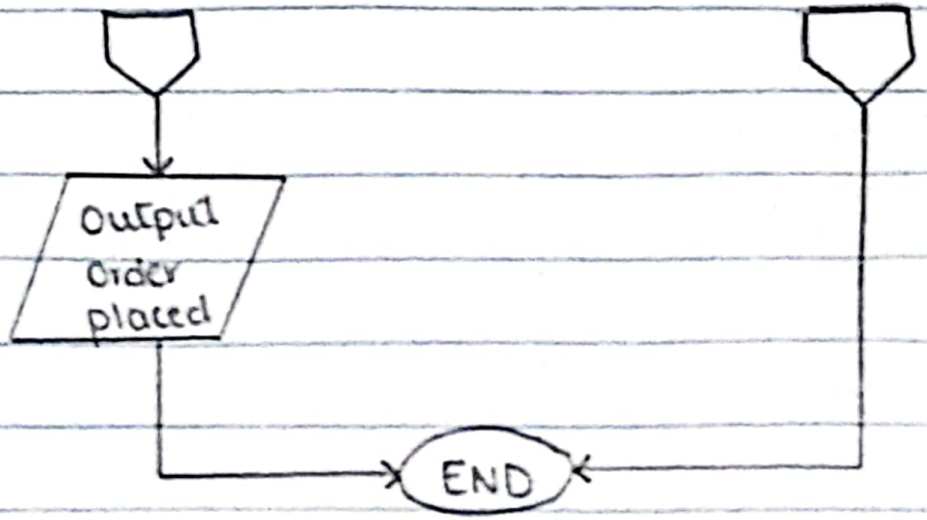

Start
Input Marks
Grade
End
Grade
Marks >=90 AN <=100
Yes
Output A+
NO
Marks >=70 AND <90
Yes
Output A
NO
Marks >=50 AND <70
Yes
Output B
No
Marks >=F AND <50
Yes
Output C
Output "Invalid Marks"
Exit

Q4)



Q5)




Output
Order
placed
END

Date

Pseudocode Practice

Q1)

```
Declare num1, num2, num3 : INTEGER

Input "Enter first number : ", num1
Input "Enter second number : ", num2
Input "Enter third number : ", num3

IF num1 > num2 AND num1 > num3 THEN
    PRINT "The largest number is : ", num1
ELSEIF num2 > num1 AND num2 > num3 THEN
    PRINT "The largest number is : ", num2
ELSE
    PRINT "The largest number is : ", num3
```

Q2)

```
Declare Cost, HoursParked : INTEGER

Input "Enter the number of hours you parked for", HoursParked

IF HoursParked > 1 THEN
    Cost = 5 + ((HoursParked - 1) * 3)
    Print "Your fare is : ", Cost
ELSE
    Print "Your fare is $5"
```

Q3)

```
Declare TotalCost, FinalCost, Discount : INTEGER

Input "Enter your total bill", TotalCost

IF TotalCost > 100 THEN
    FinalCost = TotalCost - (TotalCost * Discount)
    Print "Your bill after discount is :", FinalCost.
ELSE
    Print "Your bill is :", TotalCost.
```

Q4)

```
Declare number, remainder : INTEGER

Input "Enter a number", number
remainder = number MOD 2

IF remainder == 0 THEN
    Print "The number is even"
ELSE
    Print "The number is odd".
```

Date: 28/08/2024

Algorithms Practice

Q1)

* START
* Input TotalClasses, AttendedClasses
* Attendance = (AttendedClass / TotalClasses) x100
* IS Attendance < 75%?
  DISPLAY "You are given a warning for insufficient attendance"
  Otherwise
  DISPLAY "Attendance is sufficient"
* END

Q2)

* START
* Input HourlyPay, HoursWorked
* GrossPay = HourlyPay * HoursWorked
* Display GrossPay
* END

Q3)

* START
* Input num1, num2, operator
* Is operator '+'?
  DISPLAY result = num1 + num2
* Is operator '-'?
  DISPLAY result = num1 - num2
* Is operator '*'?
  DISPLAY result = num1 * num2
* Is operator '/'?
  DISPAY result = num1 / num2
* Is operator '%'?
  DISPLAY result = (num1 / num2) x100
* END.

Q4)

* START
* Input TotalBill
* Does customer want to give tip?
  if yes then finalbill = totalbill + (totalbill * 15%)
  if no then finalbill = totalbill
* END.

Q5)

* START
* Input Marks
* Marks greater than 80, give A grade.
* Marks greater than 65, give B grade
* Marks greater than 45, give C grade.
* END.