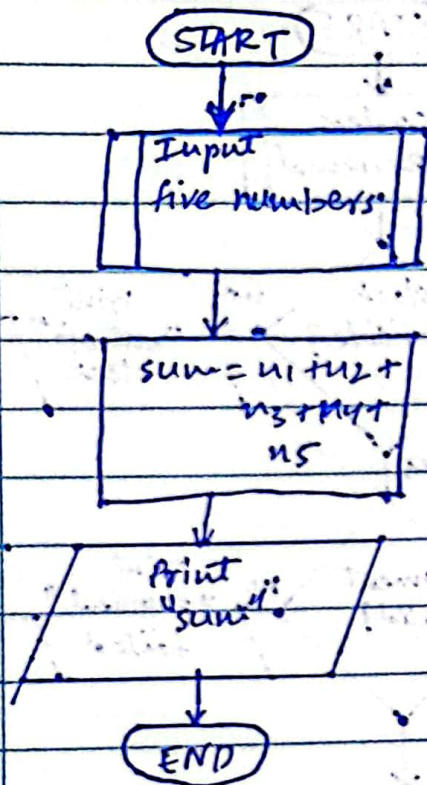


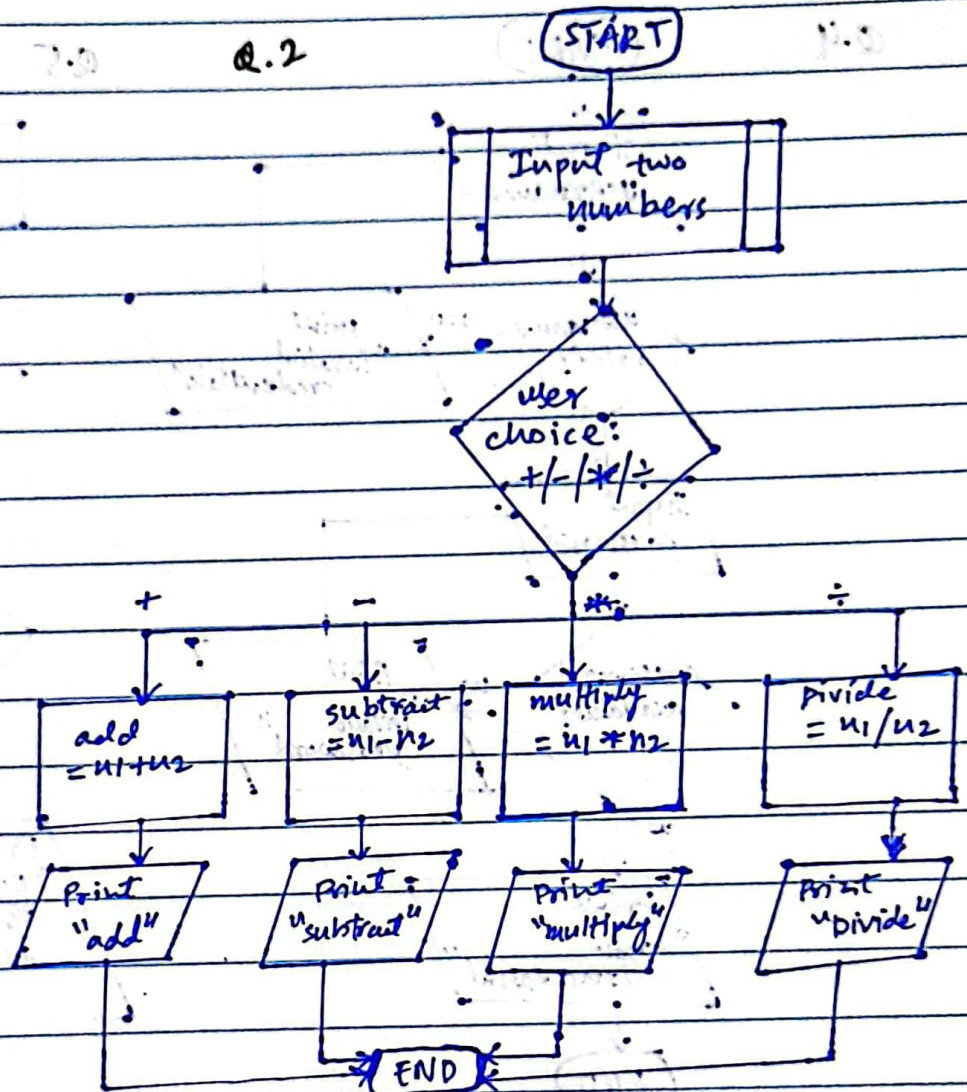
Date: \_\_\_\_\_

# Flowcharts

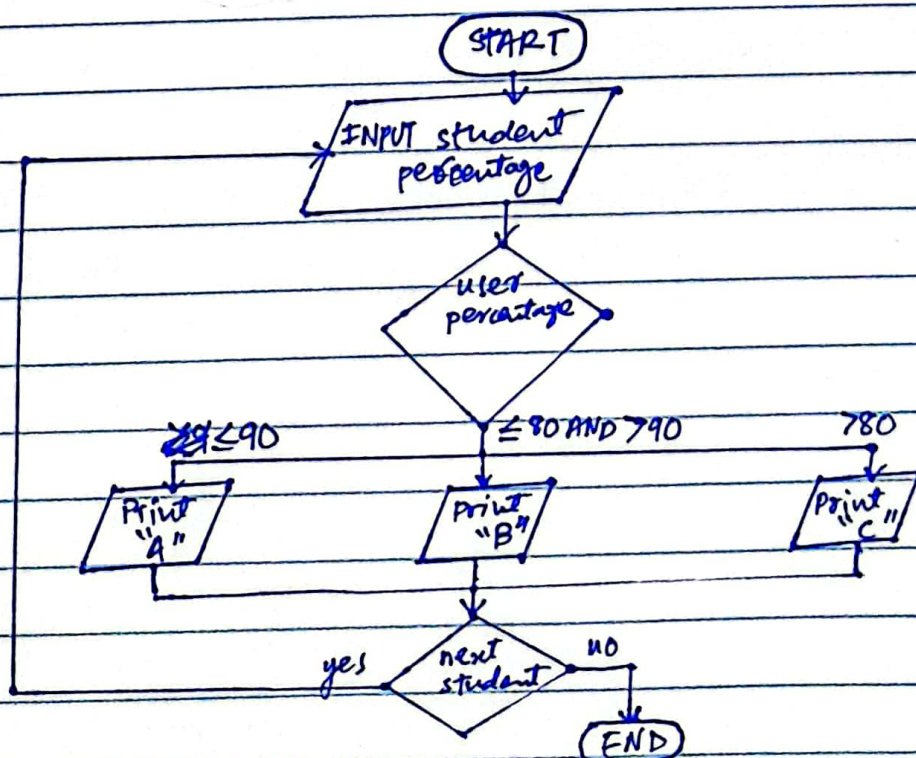
Q.1



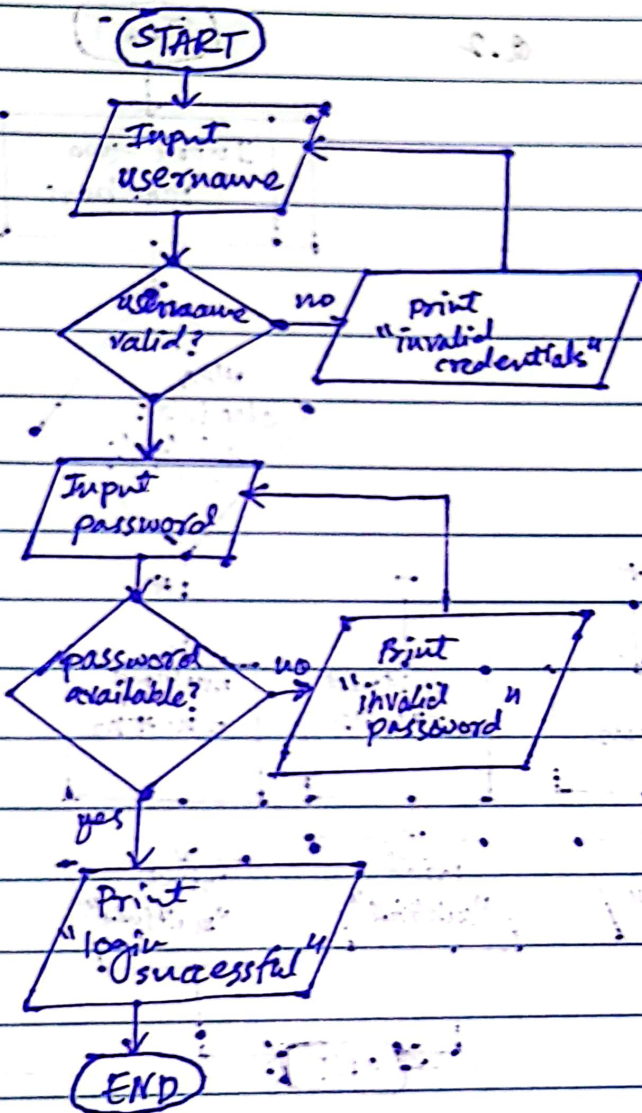
Q.2



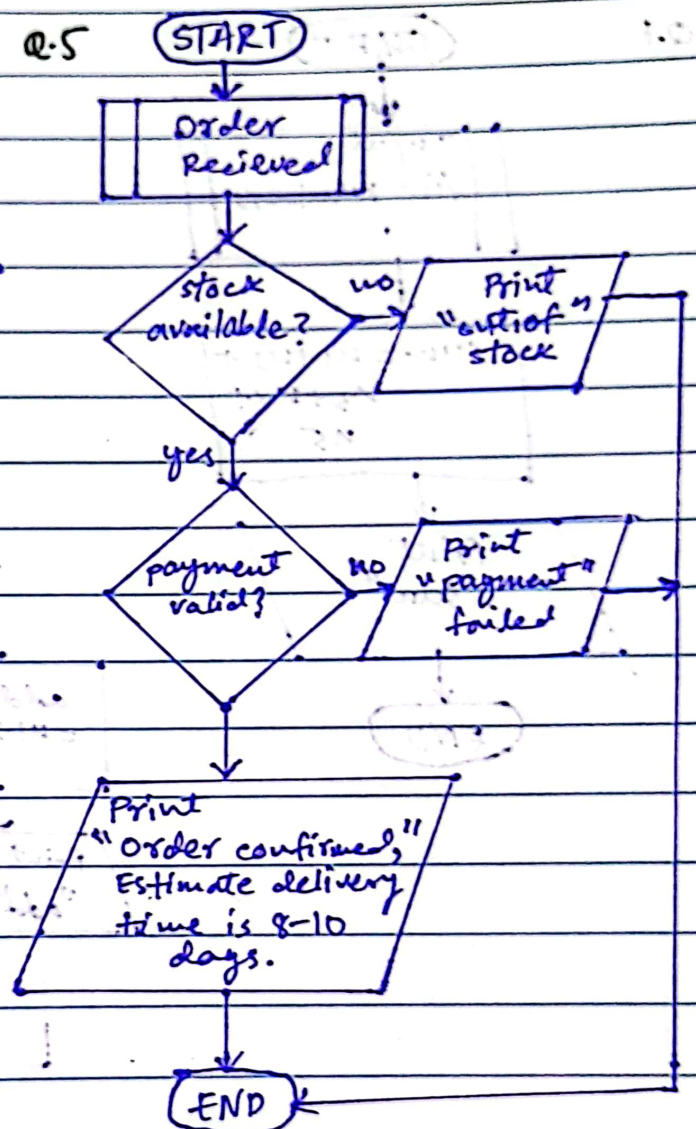
Q.3



Q.4.



Q.5





Date: \_\_\_\_\_

### Pseudocode

Q.1

1. START
2. INPUT  $n_1$
3. INPUT  $n_2$
4. INPUT  $n_3$
5. IF  $n_1 > n_2$  AND  $n_1 > n_3$  THEN
6.     DISPLAY "n<sub>1</sub> is greatest"
7. ELSEIF  $n_2 > n_1$  AND  $n_2 > n_3$
8.     DISPLAY "n<sub>2</sub> is greatest"
9. ELSE
10.     DISPLAY "n<sub>3</sub> is greatest"
11. END

Q.2

1. START
2. INPUT Parked-hours
3. SET Total\_fee = 0
4. IF Parked-hours  $\leq 1$  THEN
5.     SET Total\_fee = 5
6.     DISPLAY "Total Parking fees is Total\_fee"
7. ELSE
8.     SET Total\_fee =  $5 + (\text{Parked-hours} - 1) * 3$
9.     DISPLAY "Total Parking fees is Total\_fee"
10. END

Date: \_\_\_\_\_

Q.3

1. START
2. SET TotalCost = 0
3. SET discount = 0
4. SET discountCost = 0
5. INPUT Items
6. REPEAT
7.     INPUT Item\_Name
8.     INPUT Price
9.     TotalCost += Price
10.    Items -= 1
11. UNTIL Items > 0
12. IF TotalCost > 100 THEN
13.     SET discount = 0.25
14.     SET discountCost = TotalCost \* (1 - discount)
15.     DISPLAY "You need to pay discountCost"
16.     DISPLAY "Discount applied is, discount \* 100 %"
17. ELSE
18.     DISPLAY "You need to pay Total Cost"
19. END

Q.4

1. START
2. INPUT number
3. IF number % 2 == 0 THEN
4.     PRINT "Number is even"
5. ELSE
6.     PRINT "Number is odd"
7. END



### Algorithms

- Q.1
1. Ask the user for ~~attendancePercentage~~ <sup>attendedClasses</sup> and totalClasses.
  2. Calculate attendancePercentage using formula:  
$$\text{attendancePercent} = (\text{attendedClasses} / \text{totalClasses}) * 100$$
  3. Check if 'attendancePercent'  $\leq 75$ ,
    - Display Warning.
  4. Display attendancePercent for the user.

- Q.2
1. Ask the user to enter HoursWorked.
  2. Ask the user to enter PayRate.
  3. Set GrossPay to  $(\text{HoursWorked} * \text{PayRate})$
  4. Display GrossPay for the user.

- Q.3
1. Ask the user to enter first\_number(num1).
  2. Ask the user to enter operator(+, -, \*, /, %).
  3. Ask the user to enter second number(num2).
  4. Check if user selected '+' operator so:  
 $\rightarrow \text{result} = \text{num1} + \text{num2}.$
  5. Check if user selected '-' operator so:  
 $\rightarrow \text{result} = \text{num1} - \text{num2}.$
  6. Check if user selected '\*' operator so:  
 $\rightarrow \text{result} = \text{num1} * \text{num2}$
  7. Check if user selected '/' operator so:  
 $\rightarrow \text{result} = \text{num1} / \text{num2}.$
  8. Check if user selected '%' operator so:  
 $\rightarrow \text{result} = \text{num1} \% \text{num2}.$
  9. Display result for the user.

Date: \_\_\_\_\_

|     |   |
|-----|---|
| Q.4 | <ol style="list-style-type: none"> <li>1. Ask the user to enter amount of bill before tip (Total) ∴</li> <li>2. Ask the user whether to add the tip or not.</li> <li>3. Check if user selects 'Yes' so: <ul style="list-style-type: none"> <li>• Display set final-amount to <math>Total * (1 + 0.15)</math></li> <li>• Display final-amount for user.</li> </ul> </li> <li>4. Check if user selects 'No' so: <ul style="list-style-type: none"> <li>• Display Total for user.</li> </ul> </li> </ol>   |
| Q.5 | <ol style="list-style-type: none"> <li>1. Ask the user to enter student-percentage.</li> <li>2. Check if the <del>the</del> student-percentage is between 85 and 100 so: <ul style="list-style-type: none"> <li>• Display "Grade A" for the user.</li> </ul> </li> <li>3. Check if the student percentage is between 70 and 84 so: <ul style="list-style-type: none"> <li>• Display Grade B for user.</li> </ul> </li> <li>4. Check if student-percentage is less than 70 so: <ul style="list-style-type: none"> <li>• Display Grade C for the user.</li> </ul> </li> </ol> |