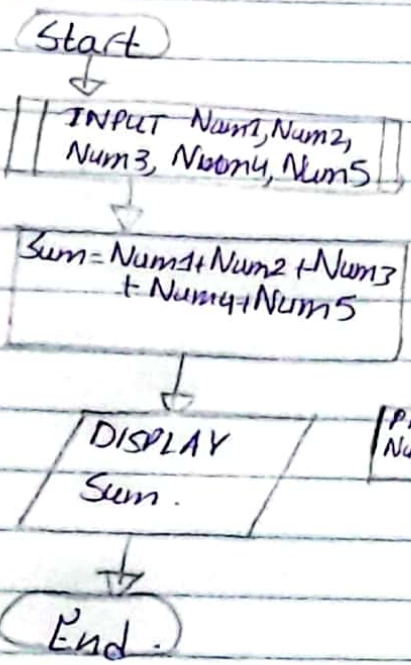
Name: Aleem Abbas
Roll No: 24K-3070.

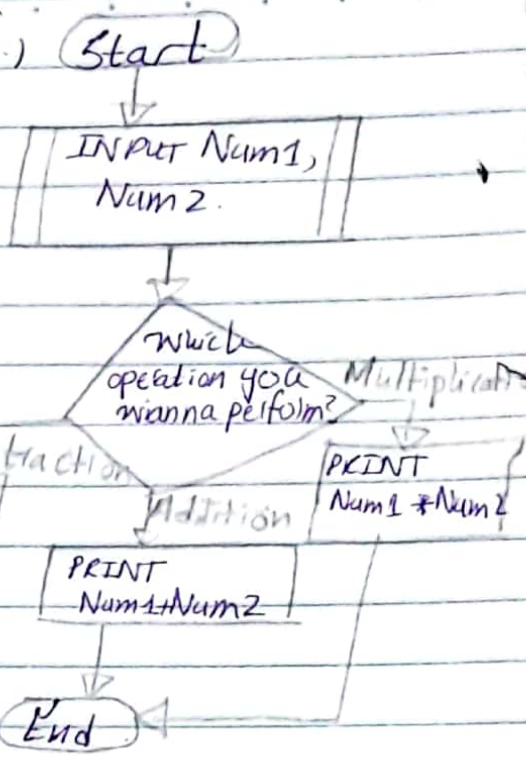
Date:

Flowcharts

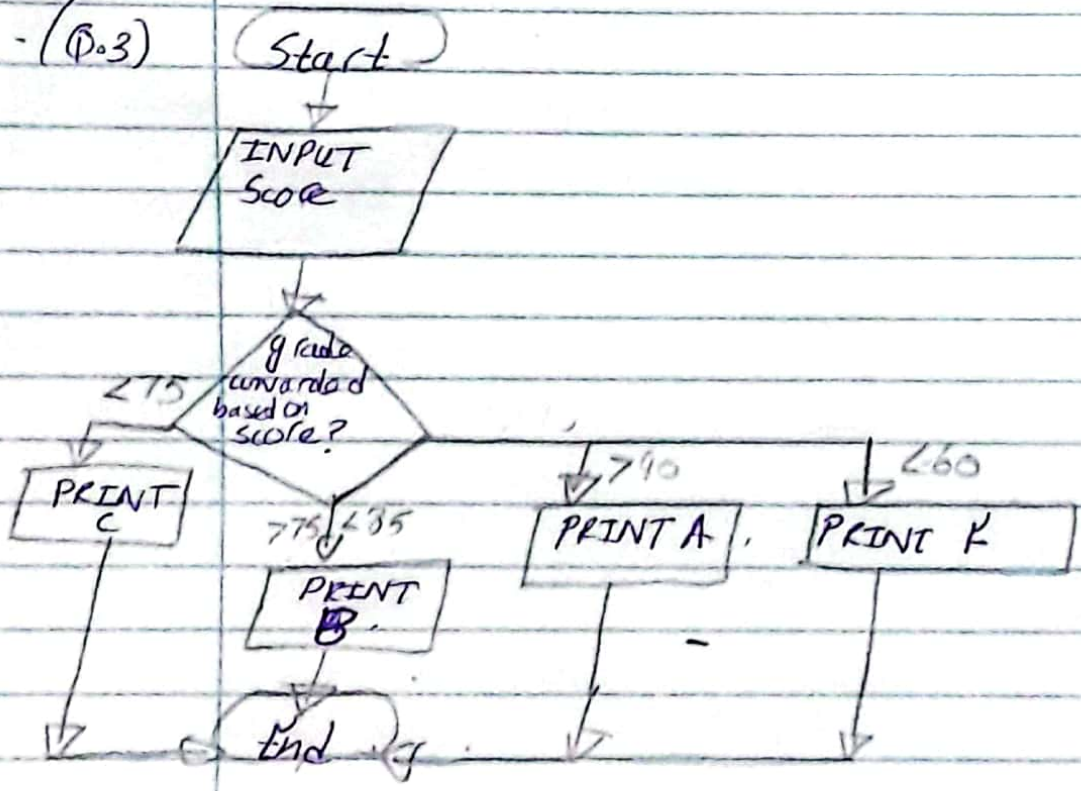
(Q1.)



(Q2.)

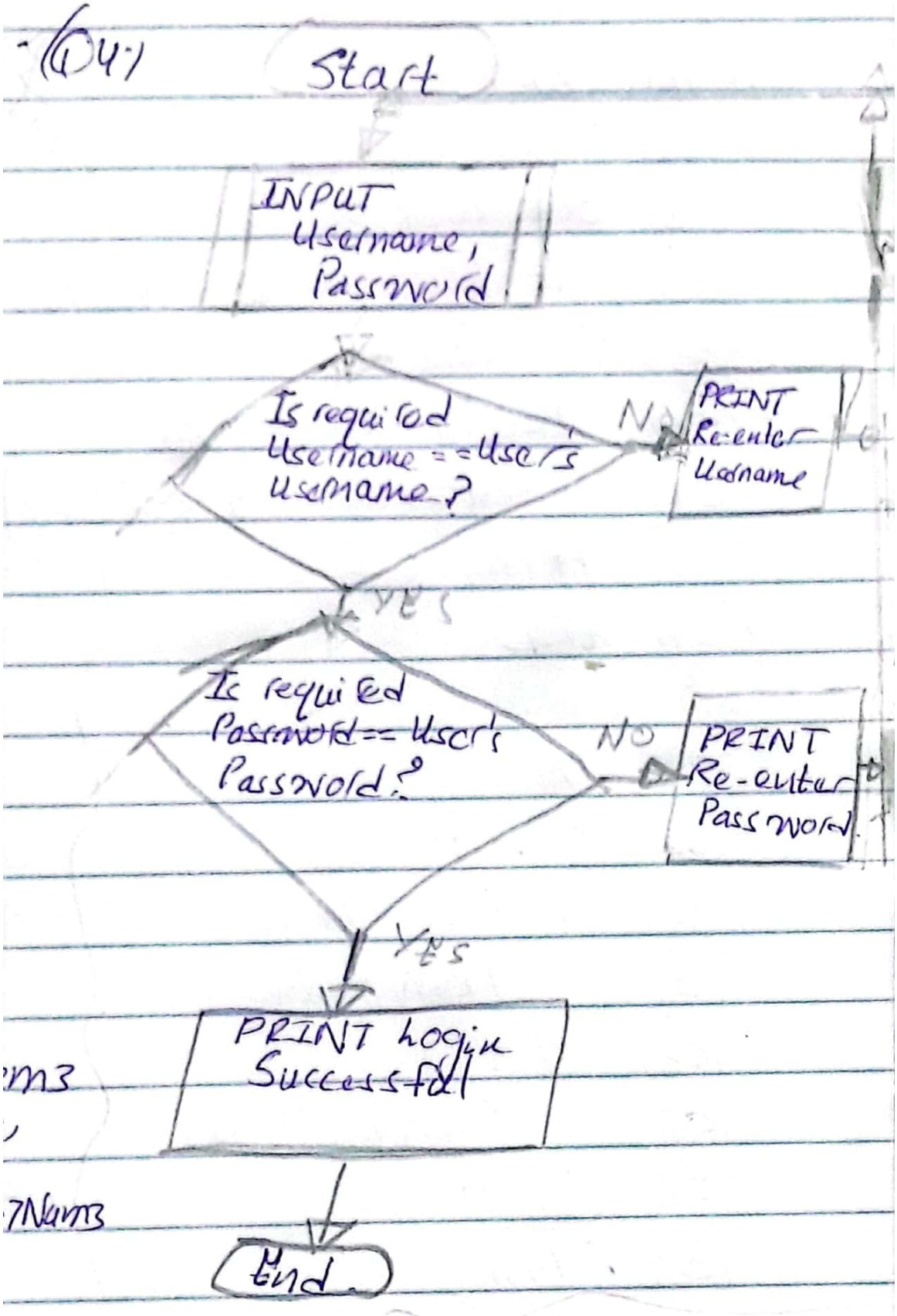


(Q.3)

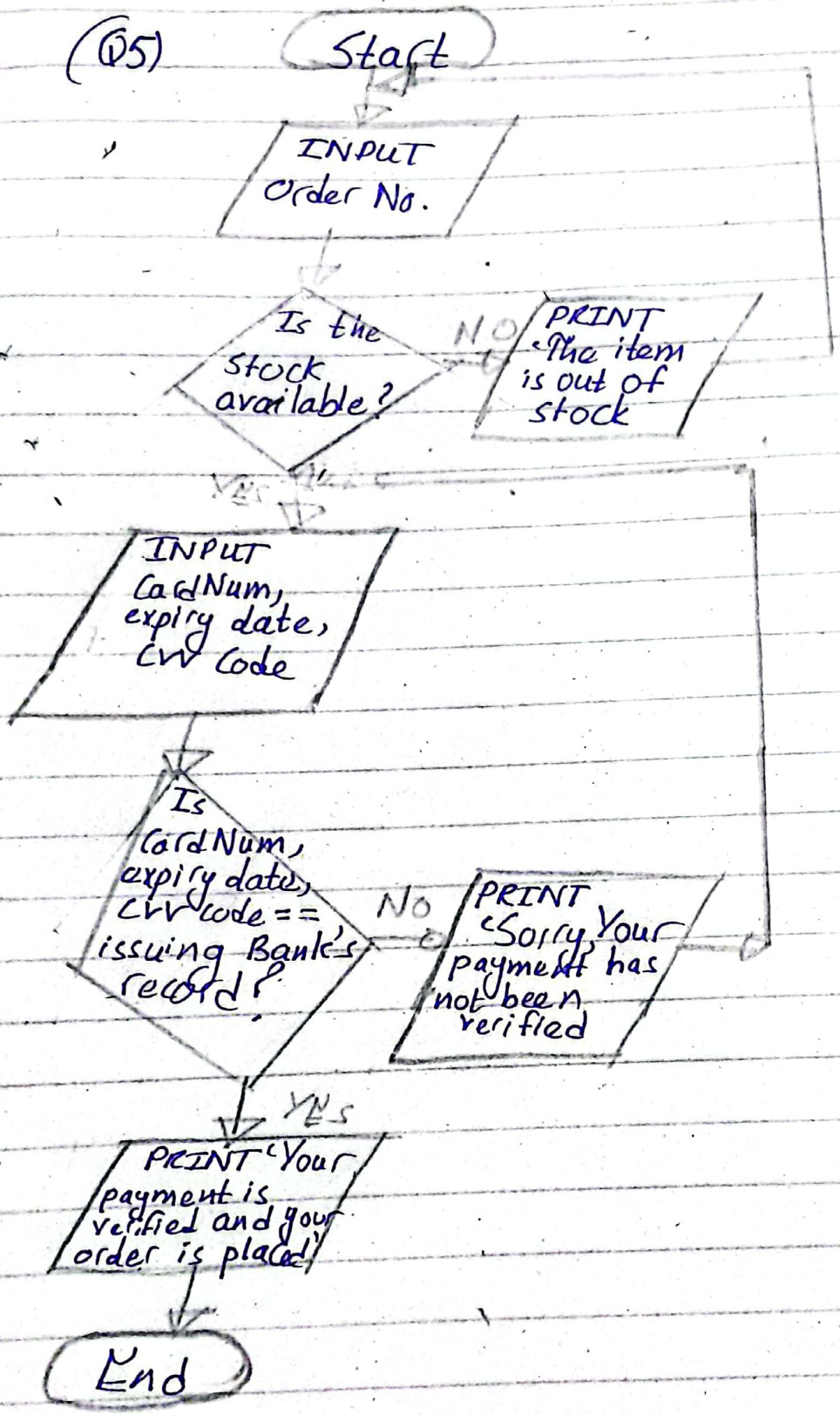


Date:

(Q4:)


Start
INPUT Username, Password
Is required Username == User's username?
N
PRINT Re-enter Username
Yes
Is required Password == User's Password?
NO
PRINT Re-enter Password
Yes
PRINT login Successful
End

(Q5)


Start
INPUT Order No.
Is the stock available?
NO
PRINT "The item is out of stock"
YES
INPUT CardNum, expiry date, CVV Code
Is CardNum, expiry date, CVV code == issuing Bank's record?
NO
PRINT "Sorry, Your payment has not been verified"
YES
PRINT "Your payment is verified and your order is placed"
End

Algorithm :(Q1)

(1.) Ask the user to enter student's attendance

(2.) Set Total Number of attendance to 68 days

(3.) Set Student Attendance Percentage to $\left(\frac{\text{Student's attendance} \times 100}{\text{Total Number of attendance}}\right)$

(4.) Check if the Student Attendance percentage is greater than equals to 75% or less than 75%.

(5) If the Student attendance is below 75%, display "Your attendance is too low"

(6) If the student attendance is at least 75%, display "Your attendance is satisfactory."

Date:

(1) Ask the user to enter Hours
(2) Ask the user to enter PayRate
(3) Set Gross Pay to (Hours x PayRate)
(4) Display the Gross Pay of an employee.

Algorithm:

(03) (1.) Ask the user to Enter Num1.
(2.) Ask the user to Enter Num2.
(3.) Ask the user which operation he would like to perform i.e (+, -, *, /, %).
(4.) If the user enters + operator, set result to (Num1+Num2).
(5.) If the user enters - operator, set result to (Num1-Num2)
(6.) If the user enters * operator, set result to (Num1 *Num2).
(7.) If the user enters / operator, set result to (Num1/Num2)
8) If the user enters % operator, set result to (Num%Num2)
4) Display result.

(04) (1.) Ask the User to enter No. of items
(2.) Ask the user to enter price per item.
(3.) Set Total to sum of (No. of items * Price per item)
(4.) Ask the user if they wants to add a tip.
(5.) If the user agrees to add a tip, then set Total to (Total + (Total * 0.15))
(6) Display Total.

(05) (1.) Ask the user to enter Marks.
(2.) If the Marks entered by the user is greater than 90 and less than 100, display "You have achieved an 'A' grade".
(3.) If the Marks entered by the user are greater than 80 and less than 90, display "You have achieved a 'B' grade.".
(4.) If the Marks entered by the user are greater than 70 and less than 80, display "You have achieved a 'C' grade.".

PSEUDOCODE:

(Q1)

```
START
INPUT Num1
INPUT Num2
INPUT Num3
IF Num1 > Num2 AND Num1 > Num3 THEN
    PRINT "Num1 is biggest"
ELSE IF Num2 > Num1 AND Num2 > Num3 THEN
    PRINT "Num2 is biggest"
ELSE
    PRINT "Num3 is biggest."
END.
```

(Q2: 10) START

(02) INPUT Hours

(03) Set Cost to 0.

(04) If Hours == 1 THEN

(05) Set Cost = 5

(06) ELSE IF Hours > 1

(07) Set Cost = ((Hours-1)*3)+5))

(08) PRINT Cost

(09) END

PSEDUCODE

(Q3)(1) START

(2) INPUT No of items

(3) INPUT Price per items

(4) SET Total to (sum of No of items * Price Per items)

(5) IF Total ≥ 100 THEN

(6) ~~Total~~ SET Total to Total - Discount

(7) ENDIF

(8) Display Total PRINT Total

(01) START
(02) INPUT Num
(03) IF Num Mod 2 == 0 THEN
(04) PRINT "Even"
(05) ELSE
(06) PRINT "Odd".
(07) ENDIF
(08) END