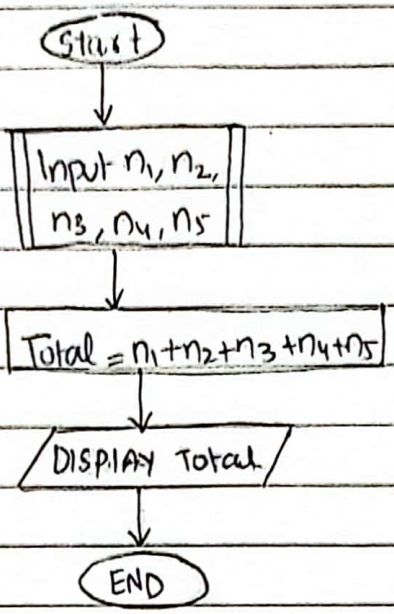
Hira Bashir
24K-3064

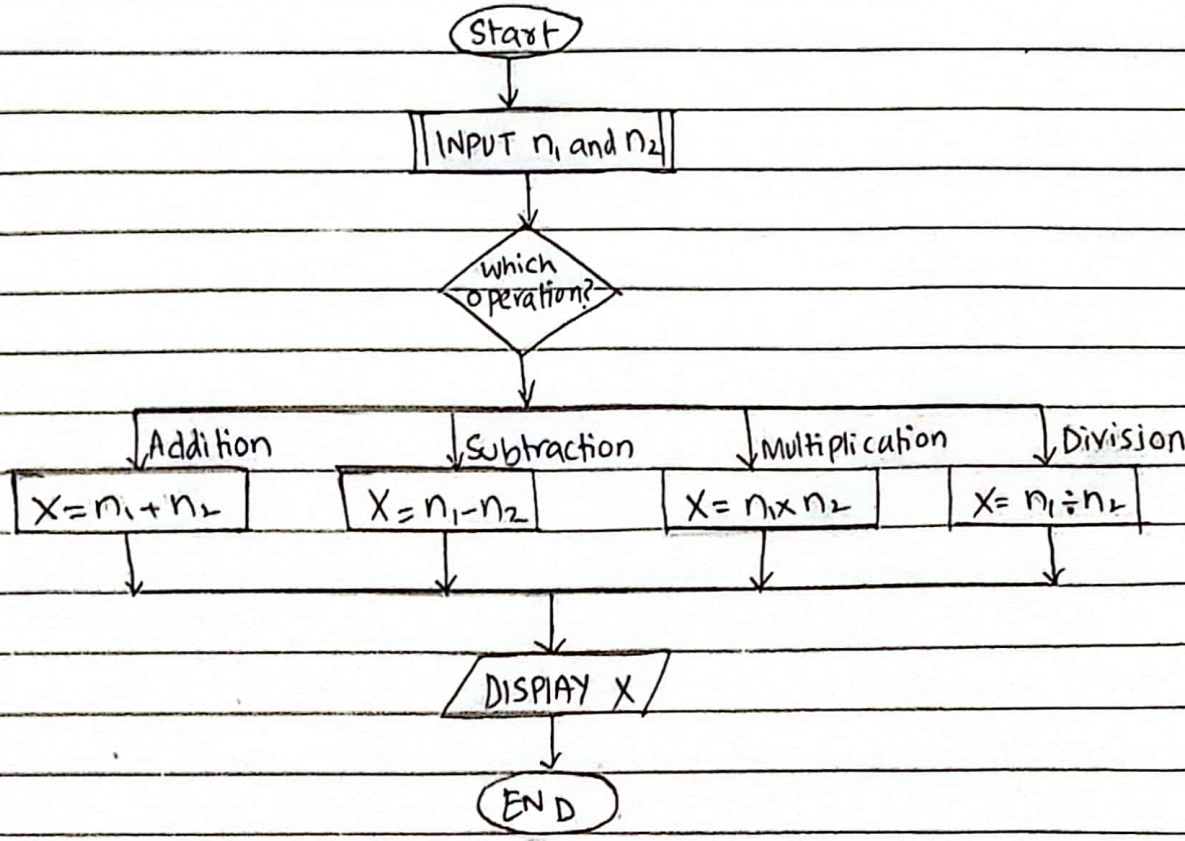
Date: _____

FLOWCHARTS

Task 01:



Task 02:



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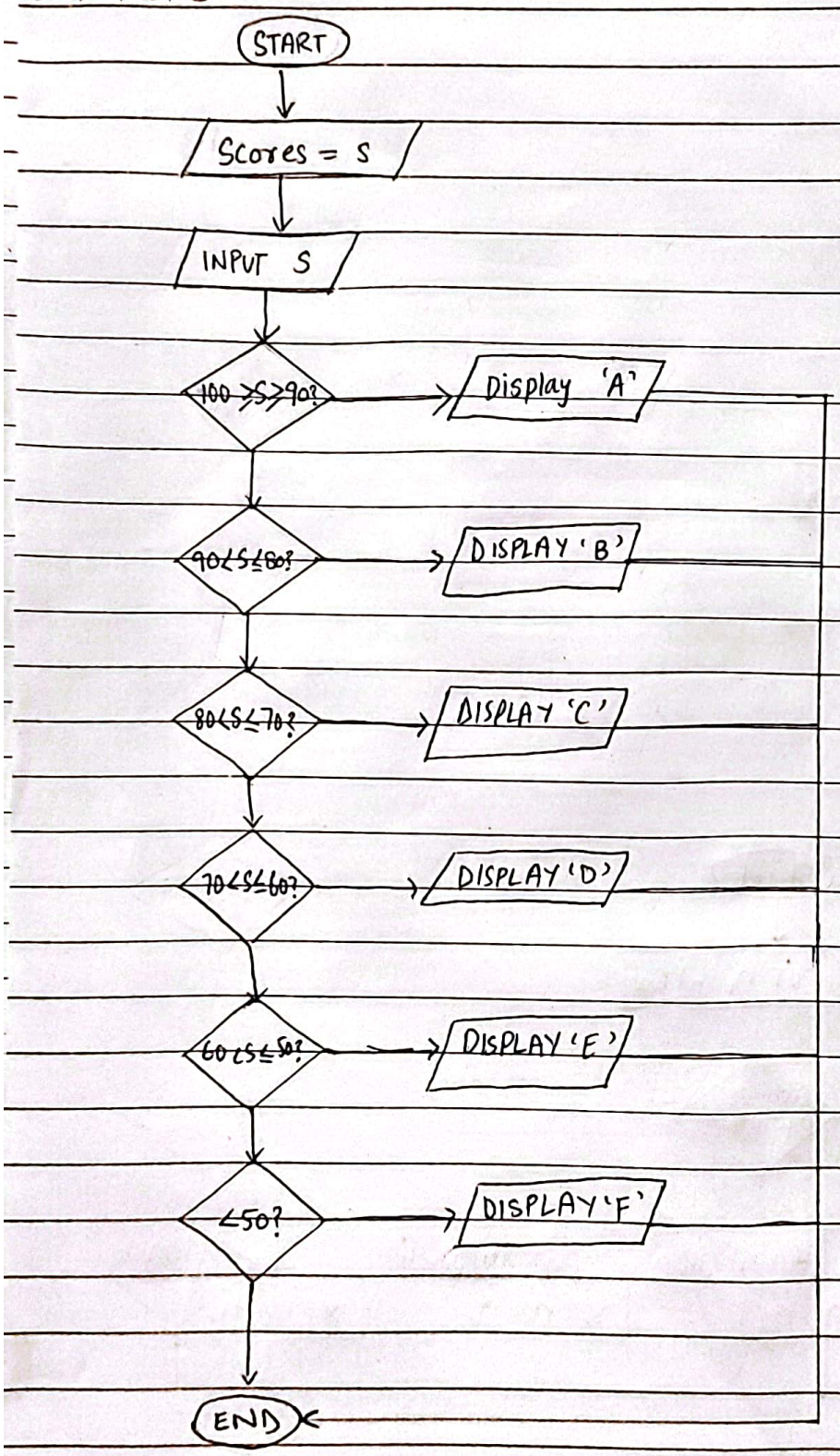
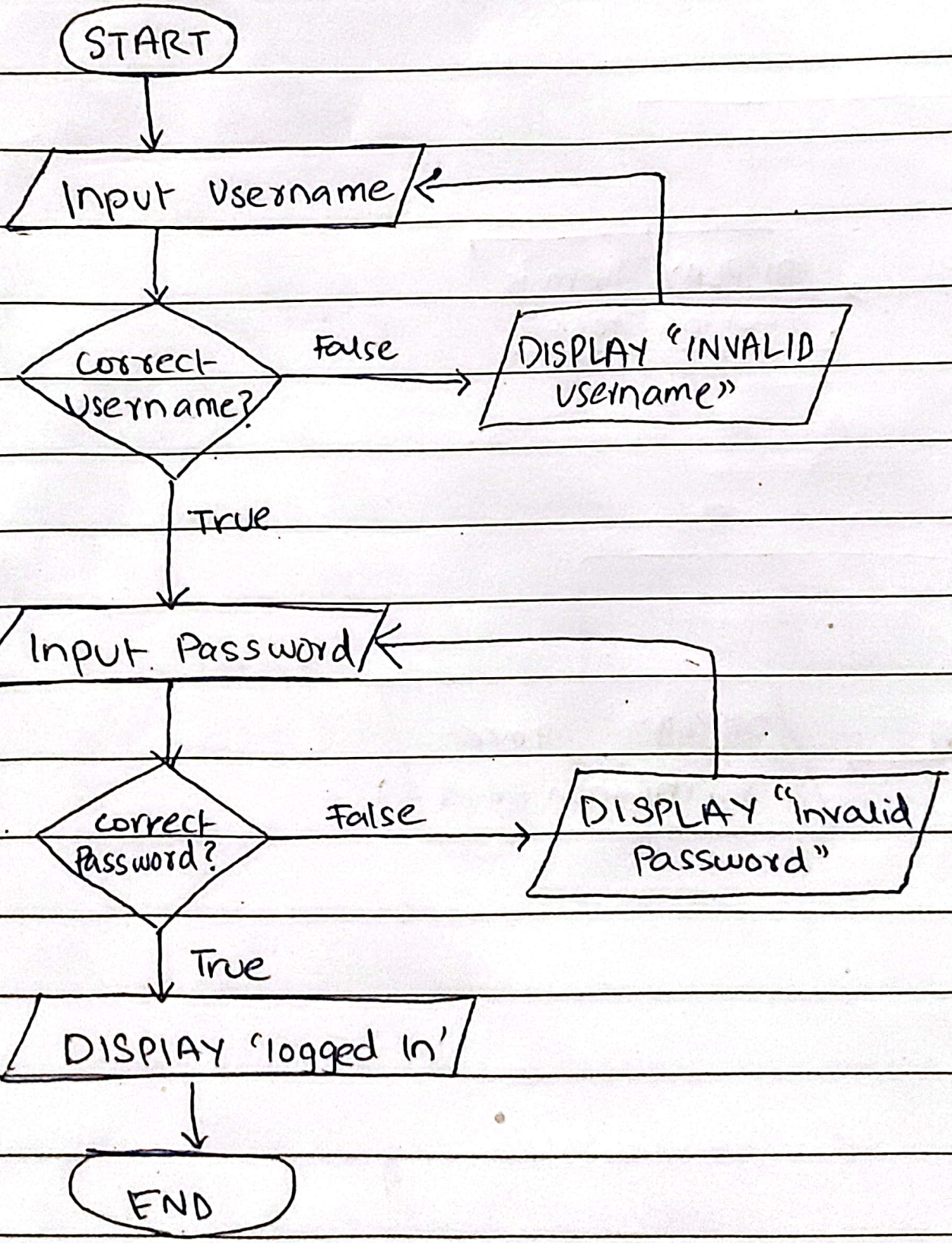
Q.3 Task 3



Task : 4


START
Input Username
Correct Username?
False
DISPLAY "INVALID username"
True
Input Password
correct Password?
False
DISPLAY "Invalid Password"
True
DISPLAY 'logged in'
END

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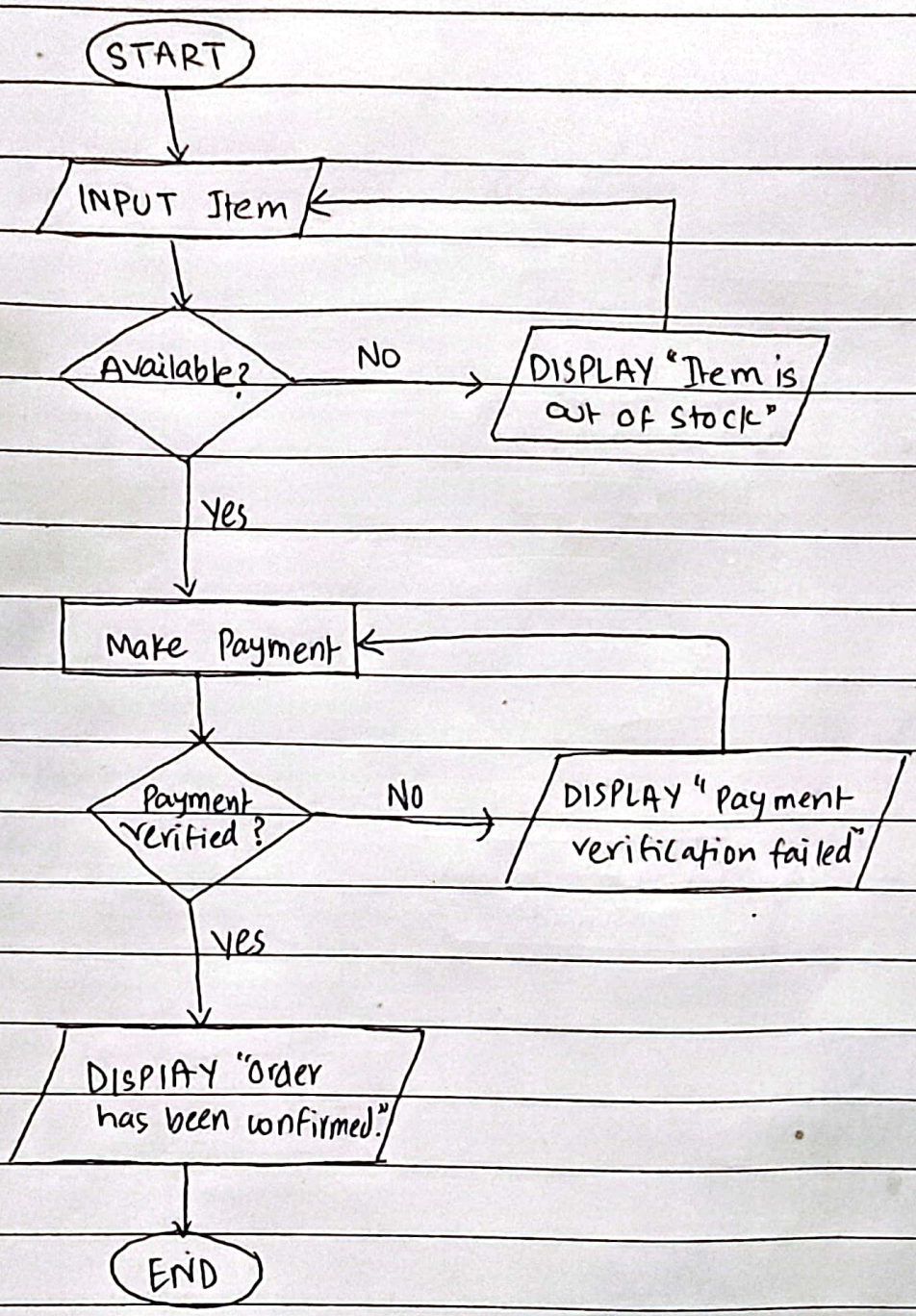
Task 5 :


START
INPUT Item
Available?
No
DISPLAY "Item is out of stock"
Yes
Make Payment
Payment verified ?
No
DISPLAY "Payment verification failed"
Yes
DISPLAY "Order has been confirmed."
END

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PSEUDOCODES

Q:1

1. Start
2. INPUT num01
3. INPUT num02
4. INPUT num03
5. IF num01 > num02 and num01 > num03 THEN
   DISPLAY "Largest number is num01".
   EISE IF num02 > num01 and num02 > num03 THEN
   DISPLAY "Largest number is num02".
   EISE DISPLAY "largest number is num03".
6. END

Q:2

1. START
2. SET cost = 5 + 3X
3. SET X = hours_parked - 1
4. INPUT hours_parked
5. DISPLAY cost
6. END.

Q:3

1. START
2. SET Total_cost = 0
3. REPEAT UNTIL all INPUTS are taken
   INPUT Item cost
   SET Total_cost = Total_cost + Item_cost
4. IF Total_cost > 100 THEN
   SET New_cost = Total_cost x 0.01
   PRINT New_cost
5. EISE

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PRINT Total_cost

6. END

Q:4

1. START
2. INPUT number
3. SET number = X
4. IF X ÷ 2 == whole number THEN
   DISPAY " X is even"
   EISE
   DISPLAY "X is odd".

ALGORITHMS

Q:1
1. Ask the user to enter number of total days.
2. Ask the user to enter number of days student is present.
3. Set Percentage to $\left(\frac{\text{no. of days}}{\text{total day}} \times 100\right)$.
4. Display Percentage for the user.
5. If Percentage is less than 75% also display 'low attendance' for the user.

Q:2 Gross Pay
1. Ask the user to enter Pay Rate.
2. Ask the user to enter number of hours worked.
3. set gross pay to (Pay rate x no. of hours worked).
4. Display Gross pay for the user.

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Q:3 Calculator

1. Ask the user to enter n_1.
2. Ask the user to enter n_2.
4. Ask the user to choose one operation out of Addition, subtraction, multiplication, division, percentage.
5. IF user operation is Addition then
   Set $x = n_1 + n_2$.
6. Else If operation is subtraction then
   set $x = n_1 - n_2$.
7. If operation is multiplication then
   Set $x = n_1 \times n_2$
8. If operation is division then
   Set $x = n_1 \div n_2$
9. If operation is percentage then
   Set $x = \frac{n_1}{n_2} \times 100$
10. Display x.
11. END

Q:4 Total Bill

1. Ask the user to enter Price of each item.
2. Set total Bill to (Sum of all items)
3. If customer chooses to add a tip
   Set new bill to (total bill + (0.15 x tip))
   Else Display new bill for the user
4. Else Display total bill for the user.
5. END

Q:5 Grades

1. Ask user to enter scoring marks.
2. If scoring marks are $100 \leq$ marks ≤ 80 then display 'you ~~got~~ grade is A'.
3. Else if scoring marks are $80 <$ marks ≤ 60 then display 'you grade is B'.
4. Else ~~if scoring marks are less than 60 then~~ display C.
5. End.