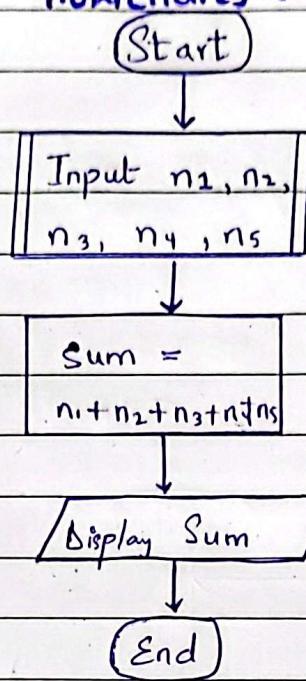


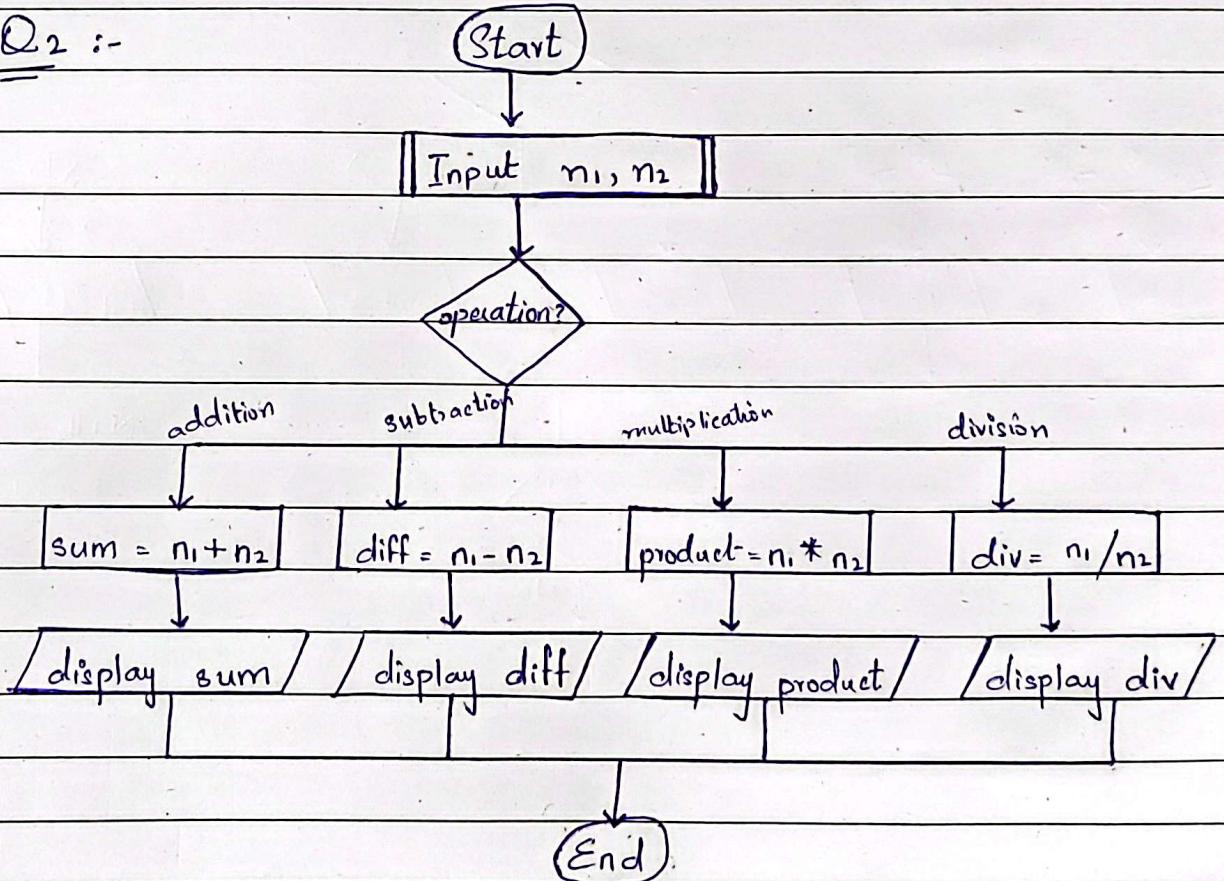
Muhammad Shahmeer Latif (24K - 3035) Date: \_\_\_\_\_

### Advanced Flowcharts :-

Q1 :-



Q2 :-

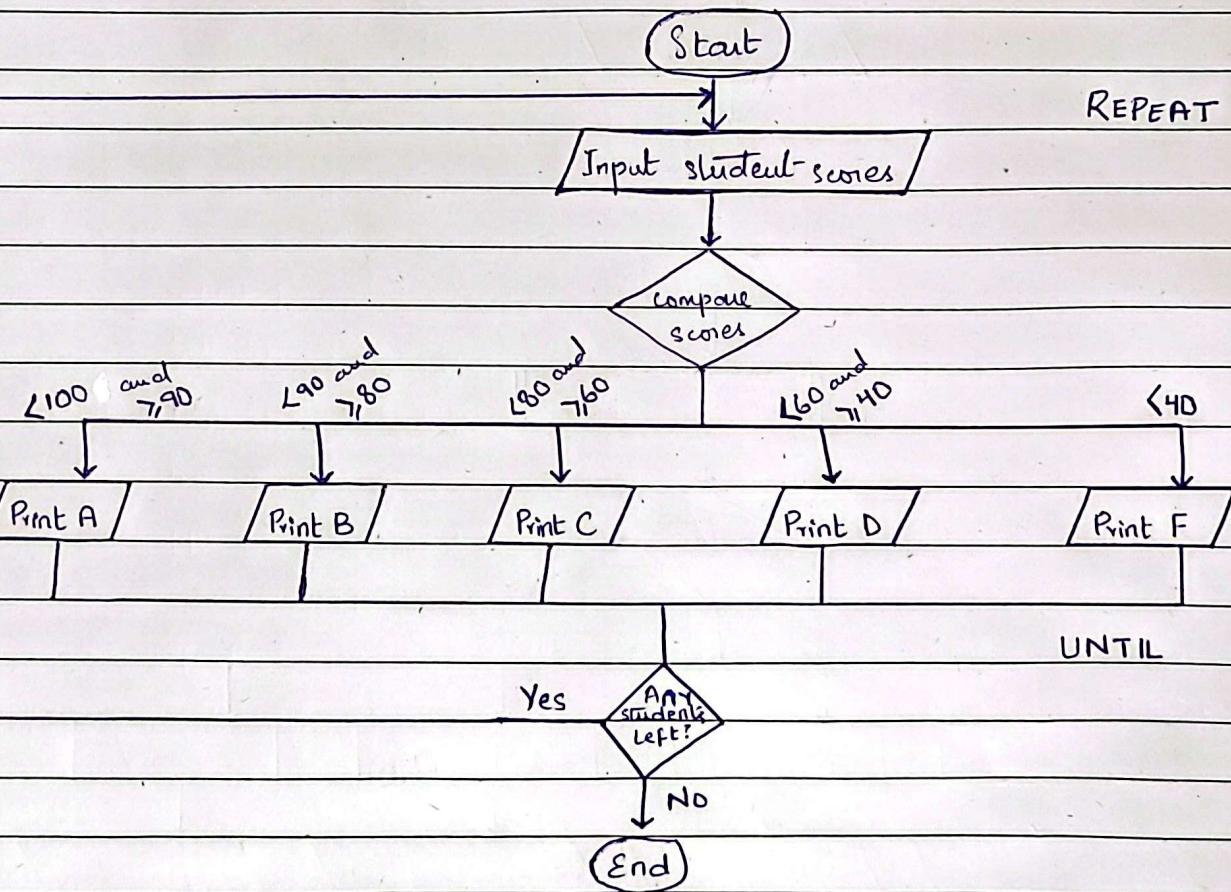


Date: \_\_\_\_\_

Q3 :-

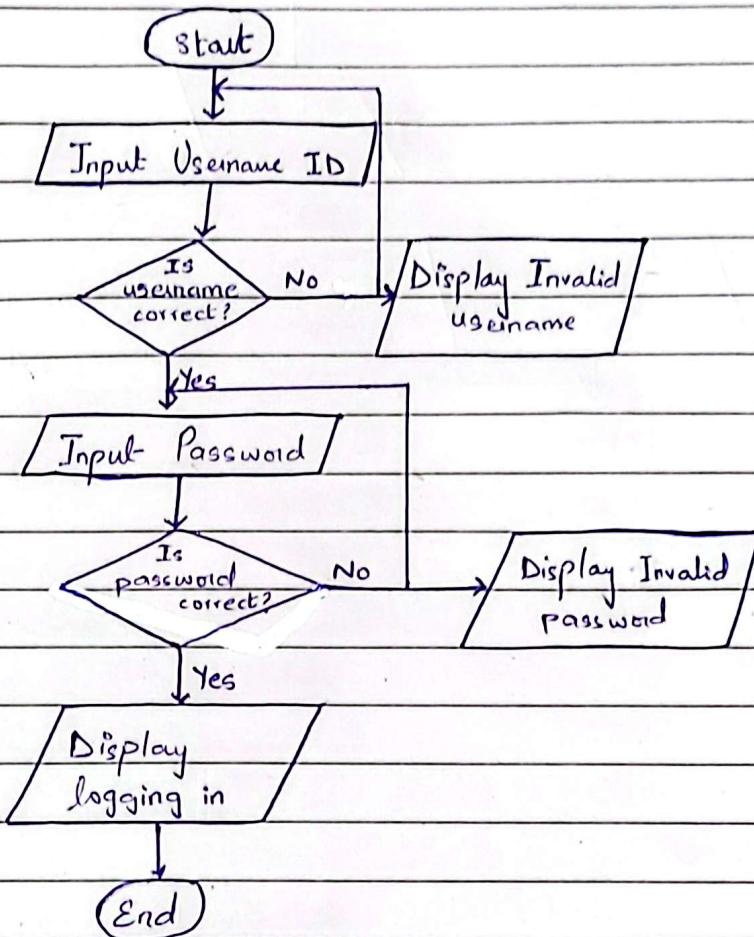
Let a predefined scale be :- lesser than or equals to 100.

- \* Student scoring greater than 90 gets an A-grade.
- \* Student scoring greater than 80 but lesser than 90 gets B-grade.
- \* Student's score greater than 60 but lesser than 80 gets C-grade
- \* Student's score greater than 40 but lesser than 60 gets D-grade.
- \* Students below 40 gets an F-grade.

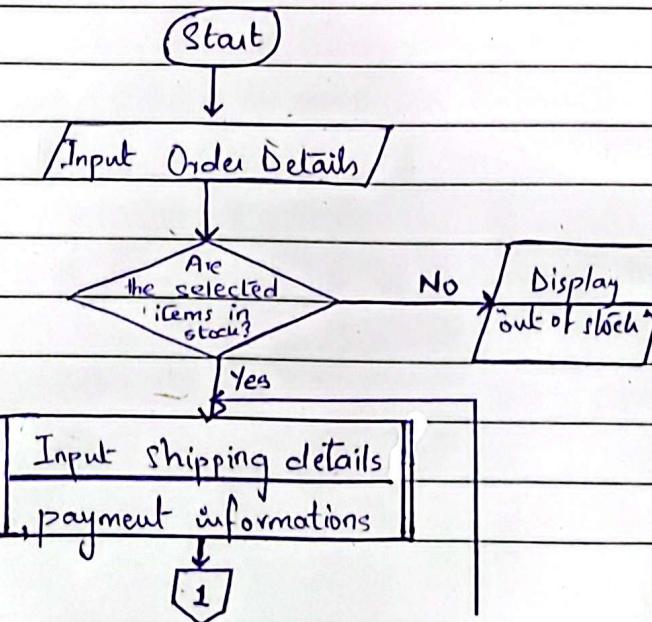


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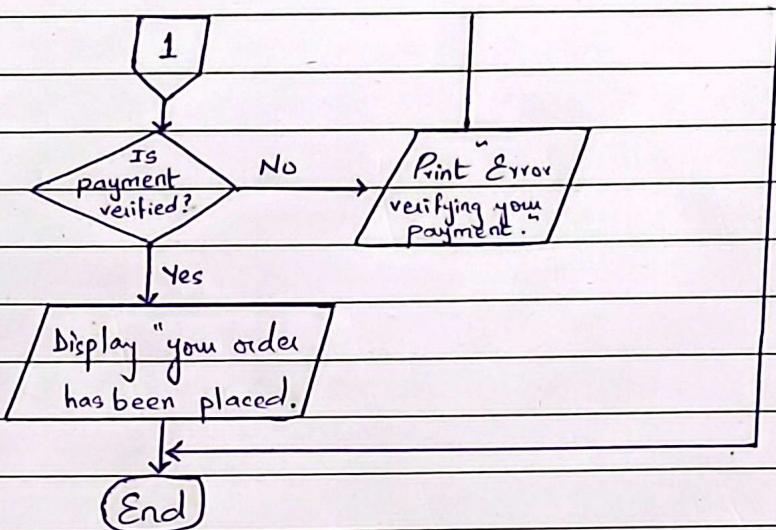
Q4 :-



Q5 :-



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



## Pseudocodes :-

Q1 :-

Step 1 :- START

Step 2 :- INPUT num1

Step 3 :- INPUT num2

Step 4 :- INPUT num3

Step 5 :- IF num1 > num2 and num1 > num3 THEN  
PRINT "num 1 is greatest among them"

Step 6 :- ELSE

IF num2 > num1 and num2 > num3 THEN  
PRINT "num 2 is greatest among them"

Step 7 :- ELSE

PRINT "num 3 is greatest among them"

Step 8 :- END

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

Q<sub>2</sub> :-

Step 1 :- START

Step 2 :- INPUT Hours Parked

Step 3 :- IF Hours Parked > 1 THEN

$$\text{cost} = 5 + ((\text{Hours Parked} - 1) * 3)$$

PRINT "your parking fare is cost"

Step 4 :- ELSE

PRINT "your parking fare is \$5"

Step 5 :- END

Q<sub>3</sub> :-

Step 1 :- START

Step 2 :- SET Total\_cost = 0

Step 3 :- REPEAT

Step 4 :- INPUT item\_cost

SET Total\_cost = Total\_cost + Item price

Step 5 :- UNTIL all inputs are taken

Step 6 :- IF Total\_cost > 100 THEN

SET DiscountedPrice = Total\_cost \* (10/100).

PRINT DiscountedPrice

Step 7 :- ELSE

PRINT Total\_cost

Step 8 :- END

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

Q4:-

Step 1 :- START  
Step 2 :- INPUT number  
Step 3 :- IF number  $\div 2 == 0$  THEN  
                PRINT "The number entered is even"  
Step 4 :- ELSE  
                PRINT "The number entered is odd"  
Step 5 :- END

## Algorithms :-

Q1:-

- ⇒ Ask the teacher to enter the total number of days school was open for students.
- ⇒ Ask the teacher to enter the number of days student was present.
- ⇒ Set attendance percentage to  $\left( \frac{\text{number of days student was present}}{\text{total number of days school was open}} \right) \times 100$
- ⇒ Display attendance percentage for the user.
- ⇒ If attendance percentage is below 75, also issue a warning for user.

Q2:-

- ⇒ Ask the user to enter number of hours worked by an employee.
- ⇒ Ask the user to enter cost per hour of that employee.
- ⇒ Set gross pay to  $(\text{number of hours worked} * \text{cost per hour})$
- ⇒ Display gross pay for the user.

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

Q3 :-

- Ask the user to enter any 2 numbers (num1, num2)
- Ask the user which operation is going to be performed?
- Is operator performed by user is "+", then
- Display result = num1 + num2
- Is operator performed by user is "-", then
- Display result = num1 - num2
- Is operator performed by user is "\*", then
- Display result = num1 \* num2
- Is operator performed by user is "/", then
- Display result = num1 / num2
- Is operator performed by user is "%."
- Display num1 % num2

Q4 :-

- Ask the user to enter number of dishes customer ate.
- Ask the user to enter price of each dish.
- Total bill is the sum of prices of each dish customer ordered.
- Does customer wants to give a tip?
- Display Total bill, if customer refuses to give a tip.
- If customer agrees to give a tip then
- Calculate Tip = Total cost × 15%.
- Calculate Total bill including tip = Total cost + tip
- Display Total bill including tip.

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

Q5 :-

- Ask user to enter marks of the students.
- Students having marks greater than or equal to 80 and lesser than or equal to 100 gets an A-grade
- Students having marks greater than or equal to 60 but lesser than 80 gets a B-grade.
- Students having lesser than 60 gets a C-grade.