Date:

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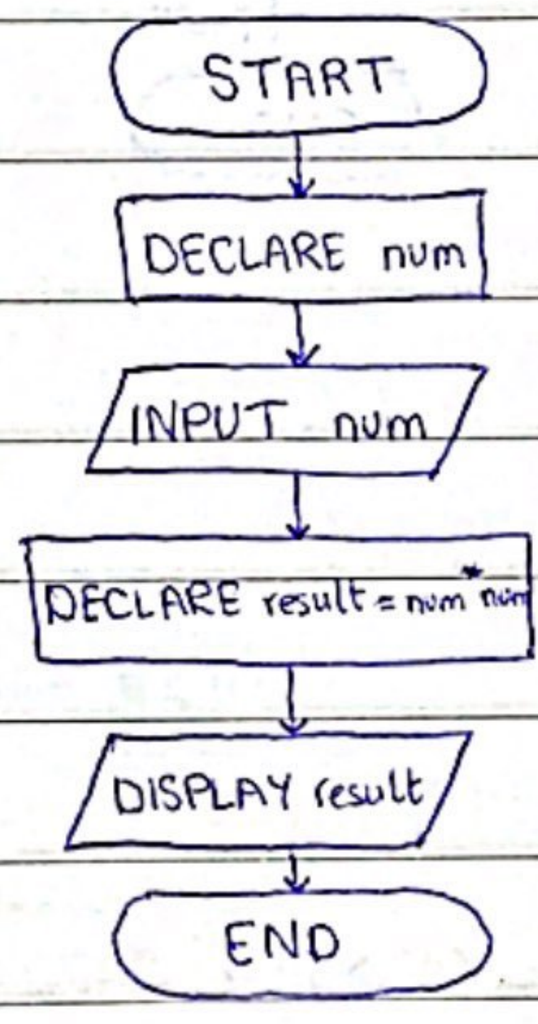
1. Pseudo Code

```
START
DECLARE num
INPUT num
DISPLAY (num * num)
END
```

Flow chart



2. Pseudo Code

```
START
DECLARE n , counter = 1
INPUT n
WHILE (counter <= n)
        DISPLAY (counter)
        counter += 1
END
```

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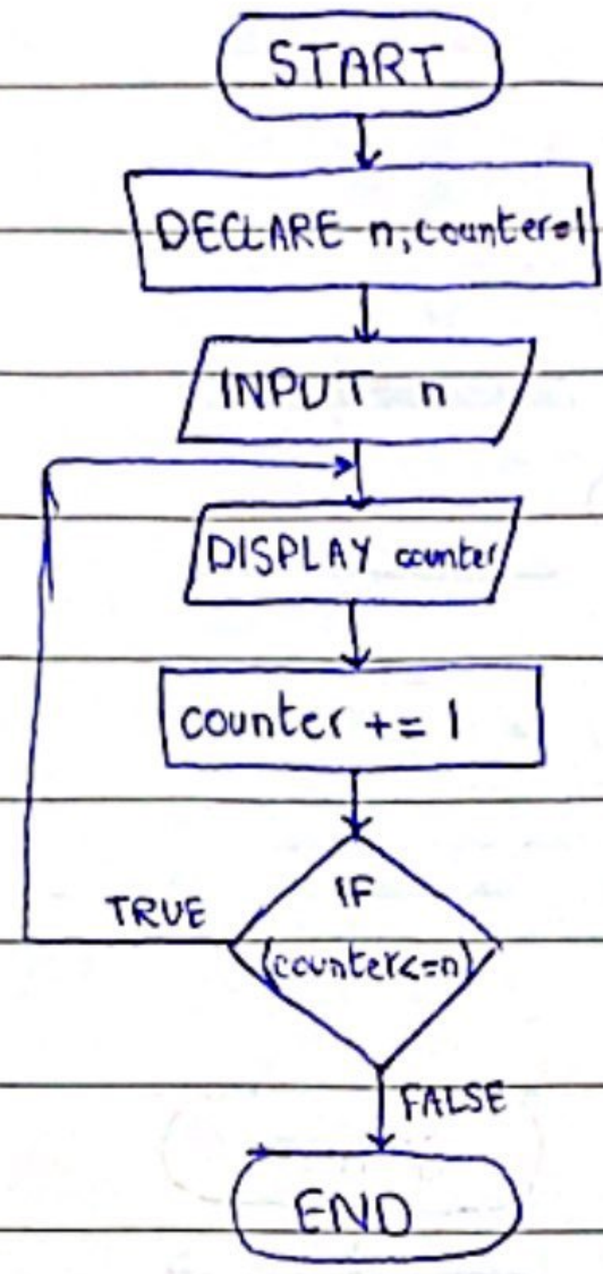
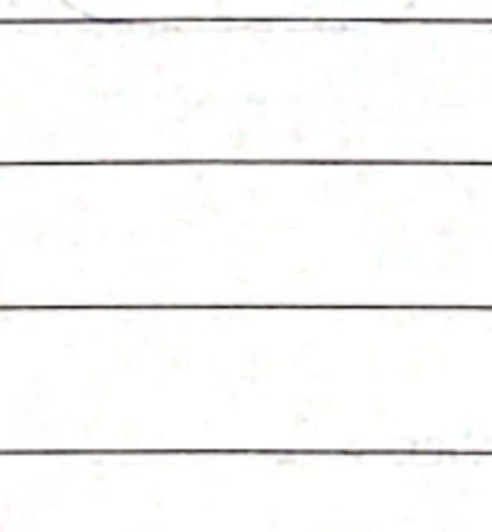
Flow chart



3. ~~Flo~~ Pseudo code

```
START
DECLARE a, b
INPUT a, b
a = a+b
b = a-b
a = a-b
DISPLAY a,b
END
```

Flow chart



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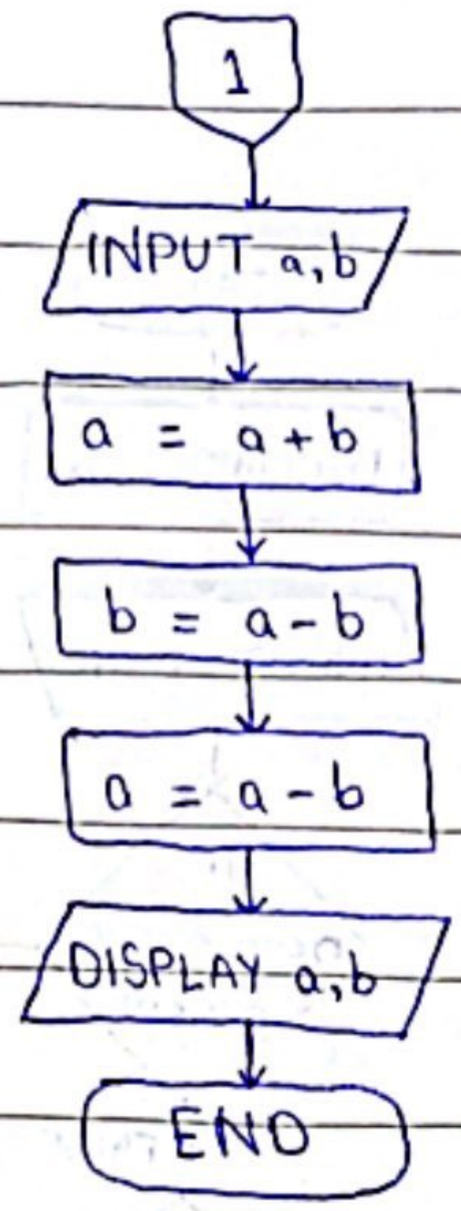

4. Pseudo code

```
START
DECLARE num
INPUT num
IF (0 <= num AND num < 10)
    DISPLAY "blue"
ELSE IF (10 <= num AND num < 20)
    DISPLAY "red"
ELSE IF (20 <= num AND num < 30)
    DISPLAY "green"
ELSE
    DISPLAY "not a correct colour option"
```

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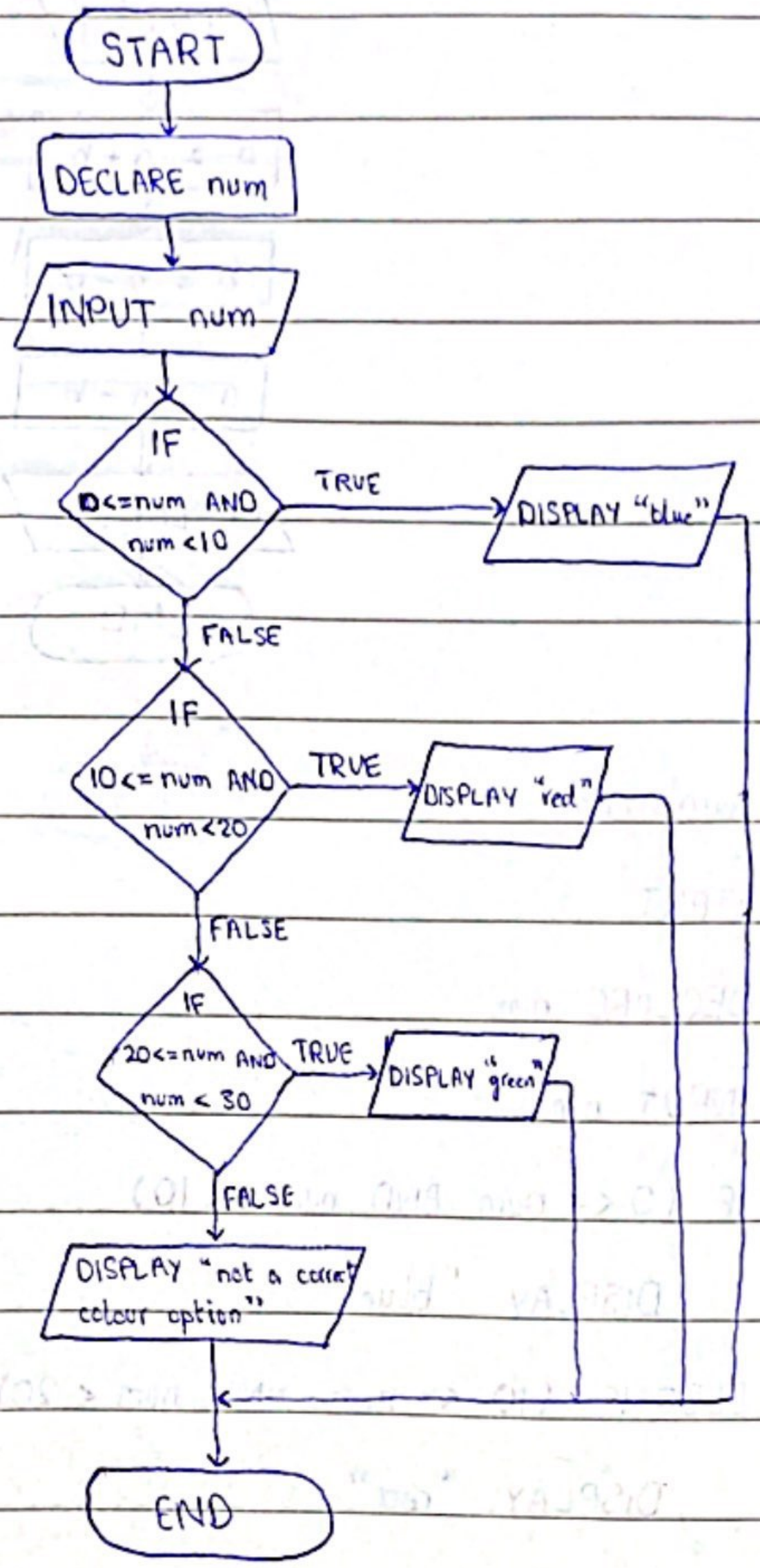
Flow chart



5. Pseudo Code

```
START
DECLARE nums, avg, sum = 0, counter = 0
WHILE (counter < 5)
    INPUT nums
    sum += nums
    counter += 1
avg = sum/5
```

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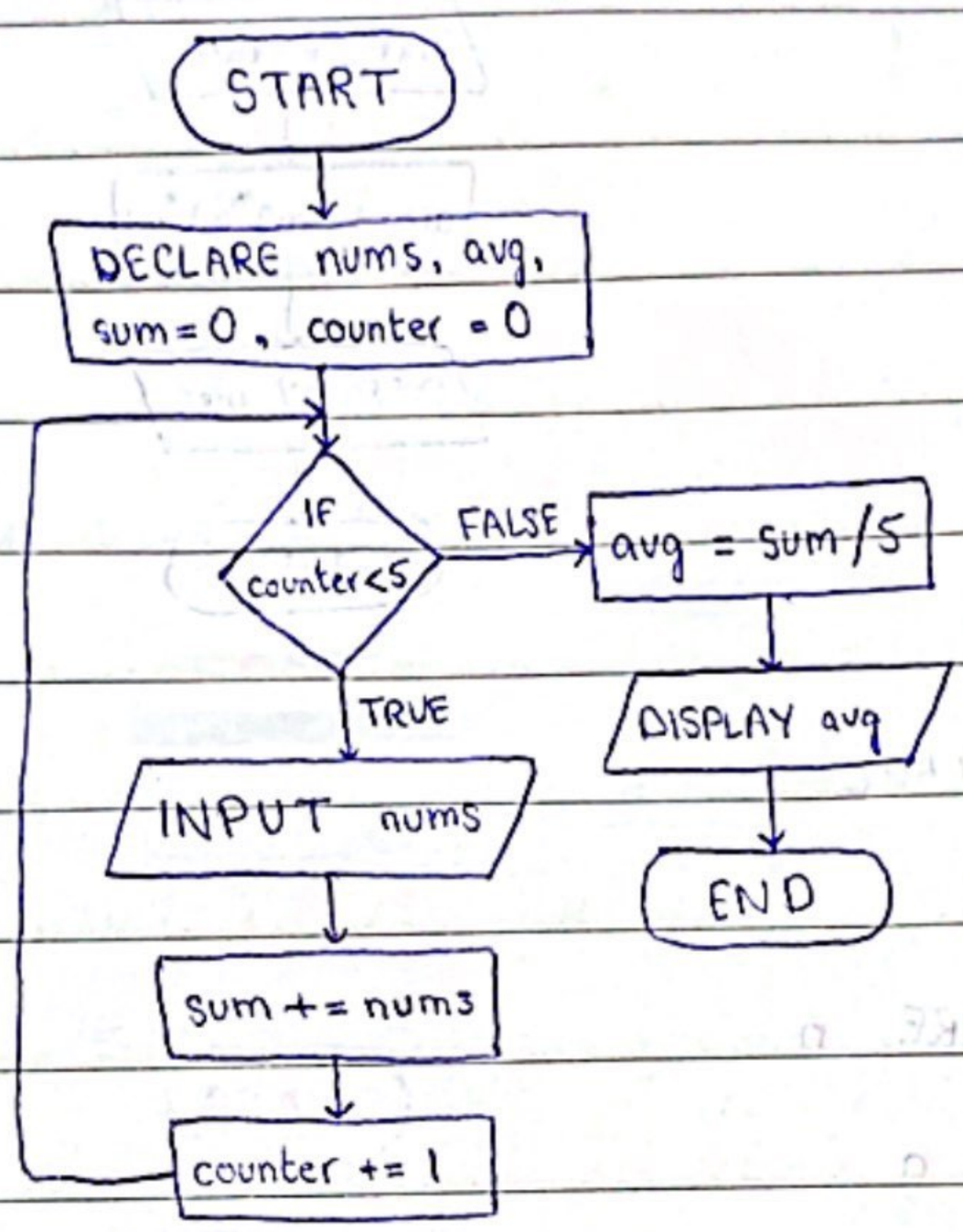
DISPLAY (avg)

END

Flow chart



6. Pseudo code

START

DECLARE radius, area

INPUT radius

area = 3.1412 * radius * radius

DISPLAY (area)

END

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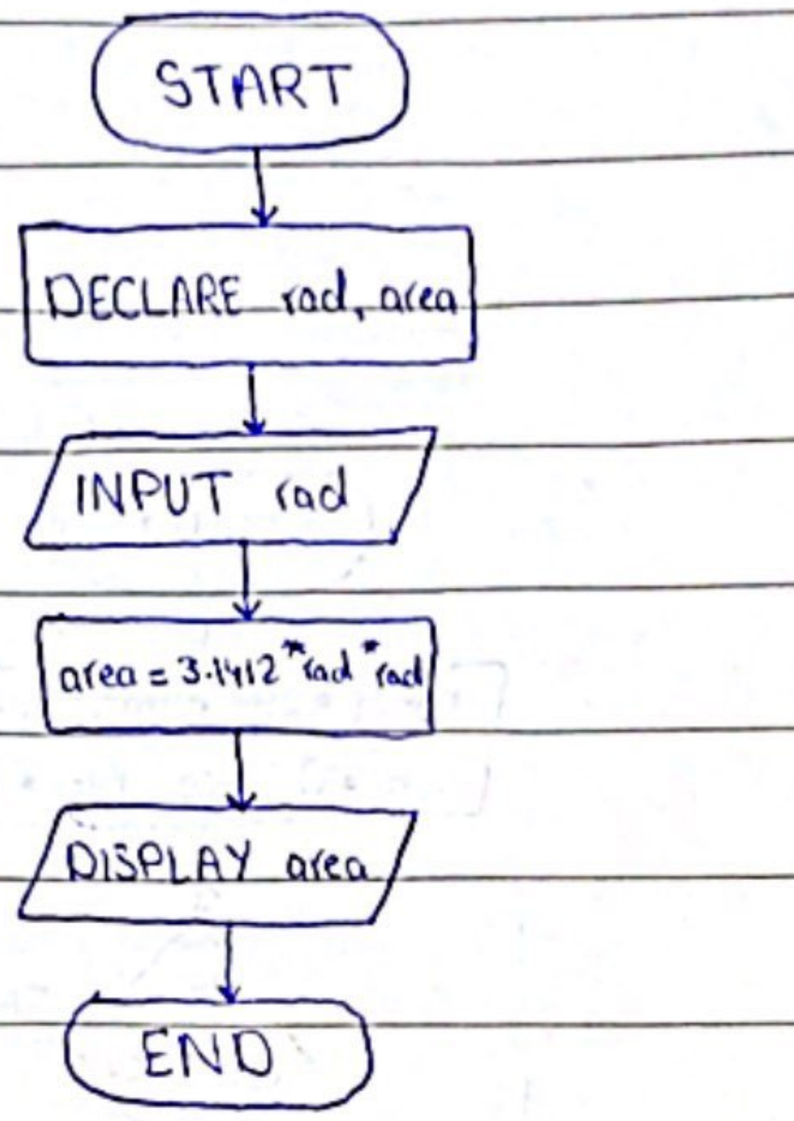
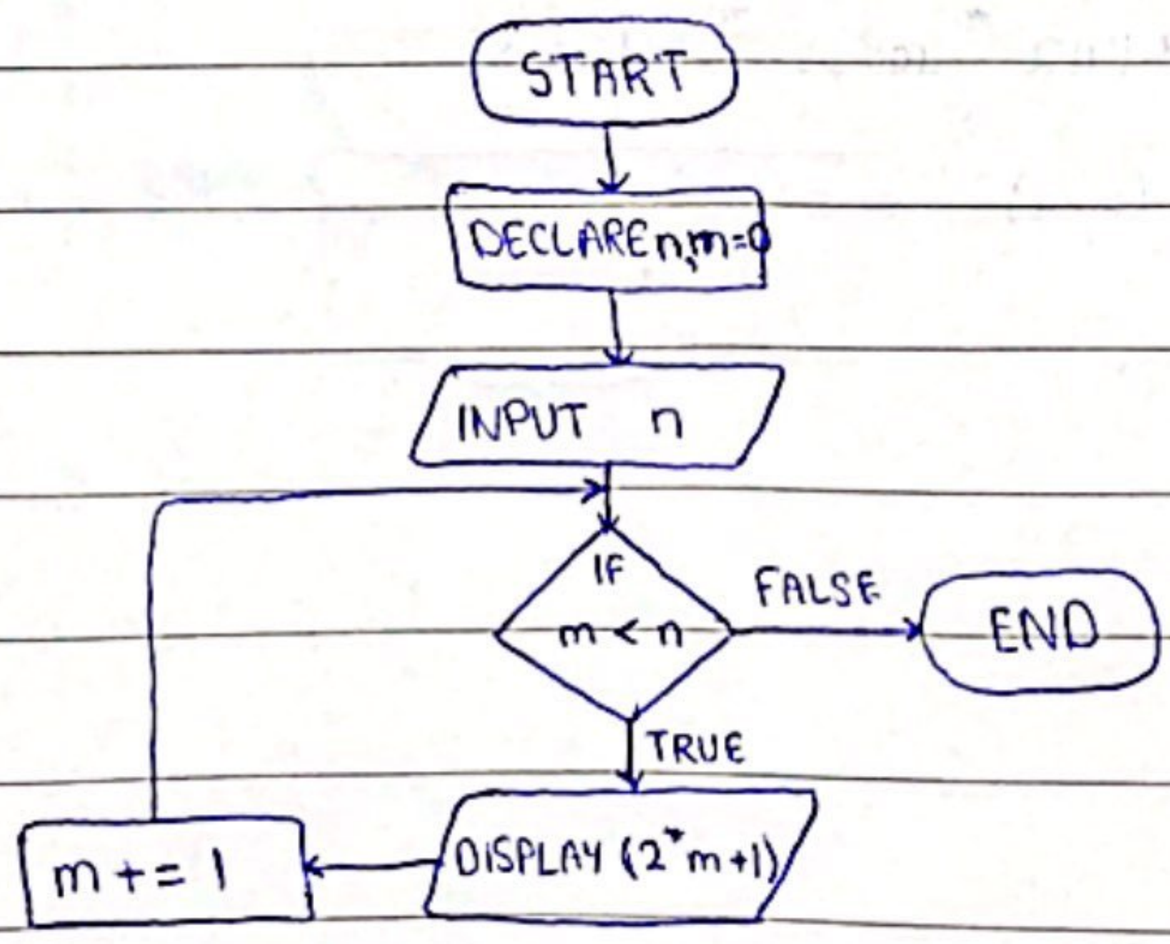
Flow chart



7. Pseudo code

```
START
DECLARE n
INPUT n
FOR I = 0 TO n
    DISPLAY (2*I + 1)
END
```

Flow chart



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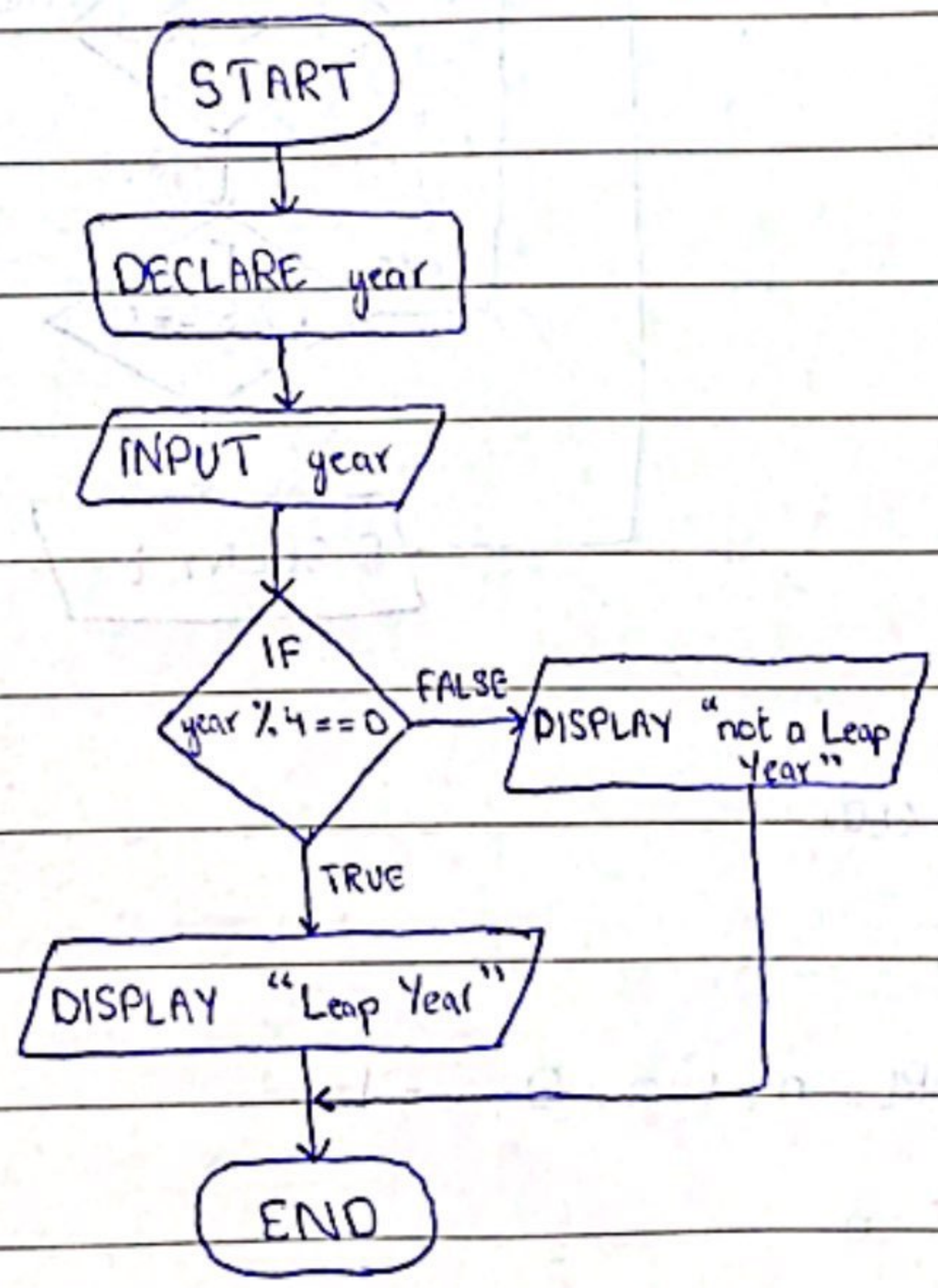
8. Pseudo code

```
START
DECLARE year
INPUT year
IF ((year % 4 == 0 AND year % 100 != 0) OR (year % 4 == 0 AND year % 100 == 0
AND year % 400 == 0))
    DISPLAY "Year is a leap year"
ELSE
    DISPLAY "Year is not a leap year"
END
```

Flow chart



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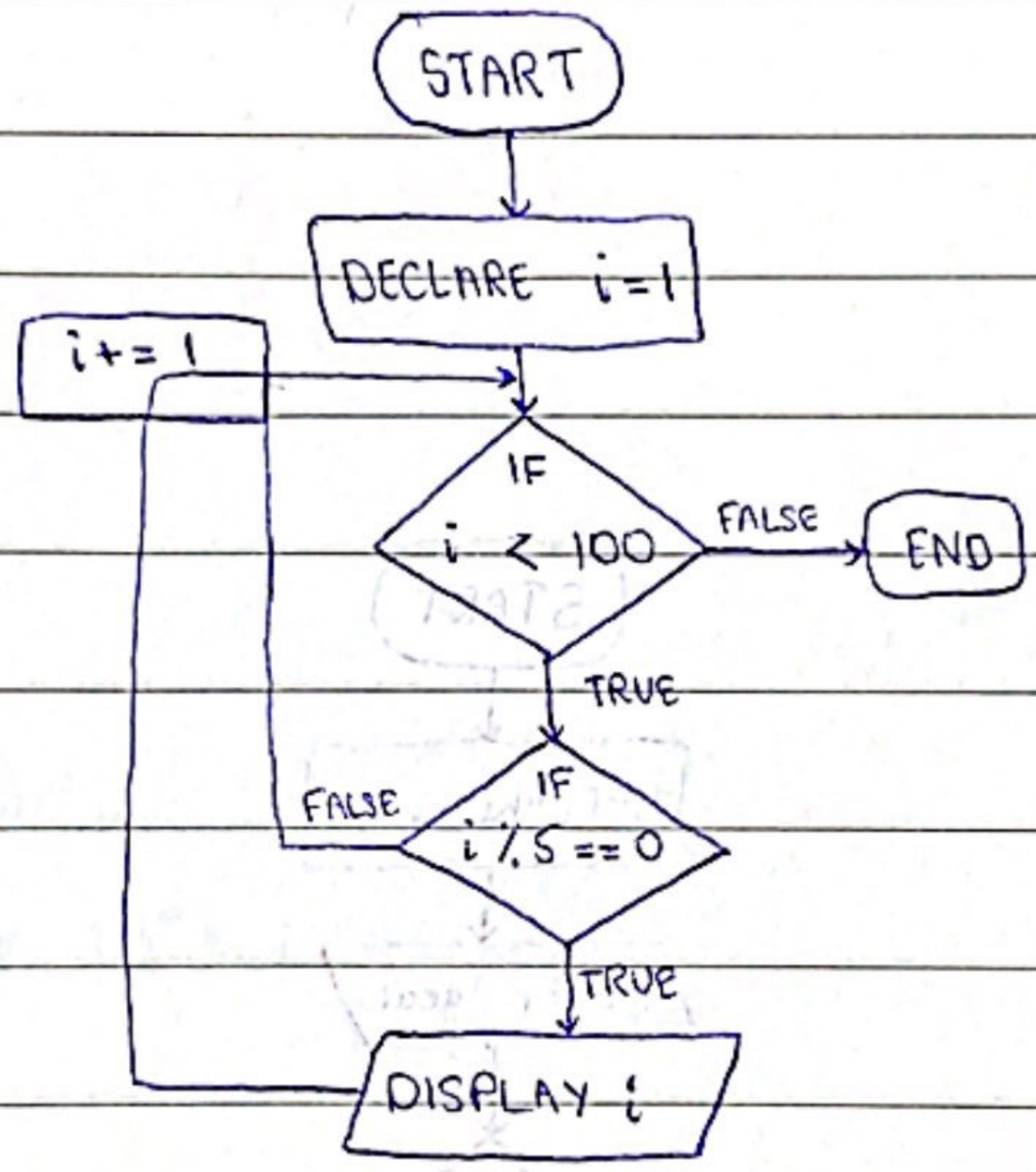
9. Pseudo code

```
START
FOR I = 1 TO 100
        IF (I % 5 == 0)
                DISPLAY (I)
END
```

Flow chart



10. Pseudo code

```
START
DECLARE n, sum = 0, i = 1
INPUT n
WHILE (i < n)
        IF (i % 2 == 0)
                sum += i
        i += 1
DISPLAY (sum)
END
```

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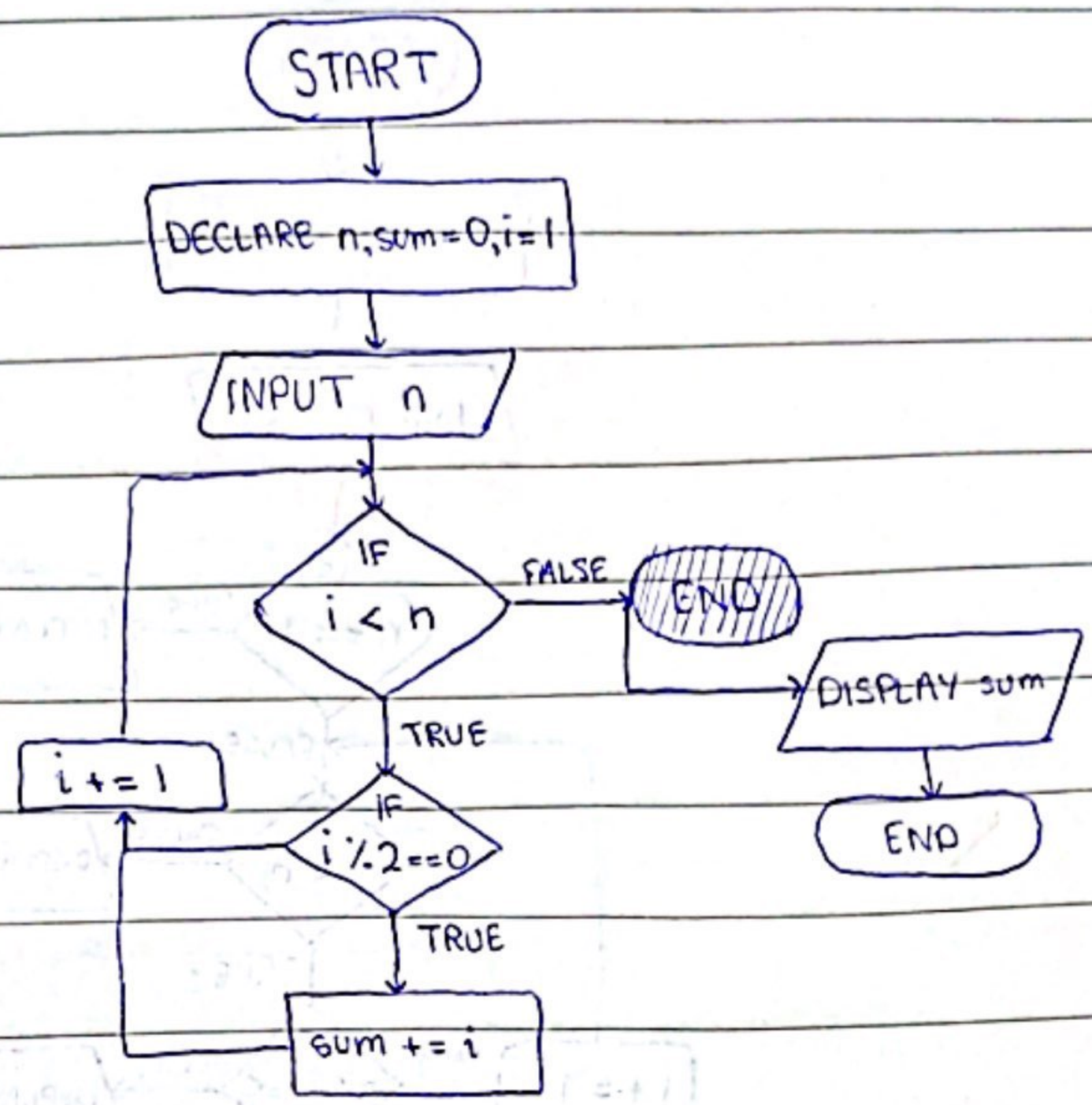
Flowchart



11. Pseudo code

```
START
DECLARE n
INPUT n
IF (n == 1)
    DISPLAY "not Prime"
ELSE IF (n == 2)
    DISPLAY "Prime"
FOR I = 2 T
ELSE
    FOR I = 2 TO n
        IF (n % I) == 0)
            DISPLAY "not Prime"
            END
    DISPLAY "Prime"
END
```

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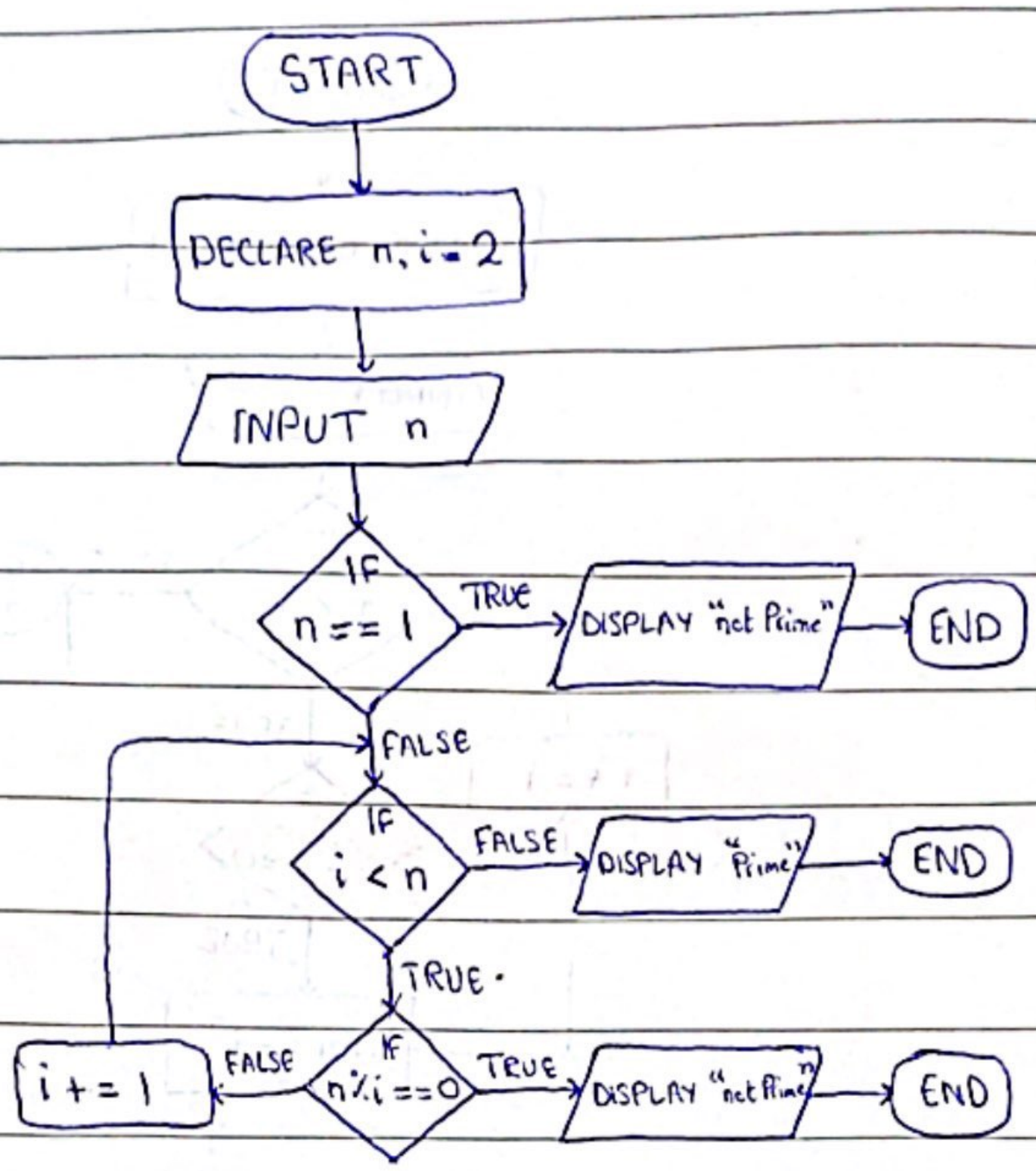
Flowchart



12. Pseudo code

```
START
DECLARE height
INPUT height
FOR I = 1 TO (height +1)
        FOR J = 0 TO I
                DISPLAY " * "
        DISPLAY new line
END
```

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13. Pseudo code

```
START
 DECLARE string, counter = 0
 INPUT string
 FOR char in string
      IF (char is vowel)
           counter += 1
 DISPLAY (counter)
 END
```

14. Pseudo Code

```
START
 DECLARE string
 INPUT string
 FOR I = 0 TO floor(string.length /2)
      IF (string[I] != string[string.length - I])
           DISPLAY "not a Palindrome"
           END
 DISPLAY "is a Palindrome"
 END
```

15. Pseudo code

```
START
 DECLARE num, sum = 0, digit = 0
 INPUT num
```

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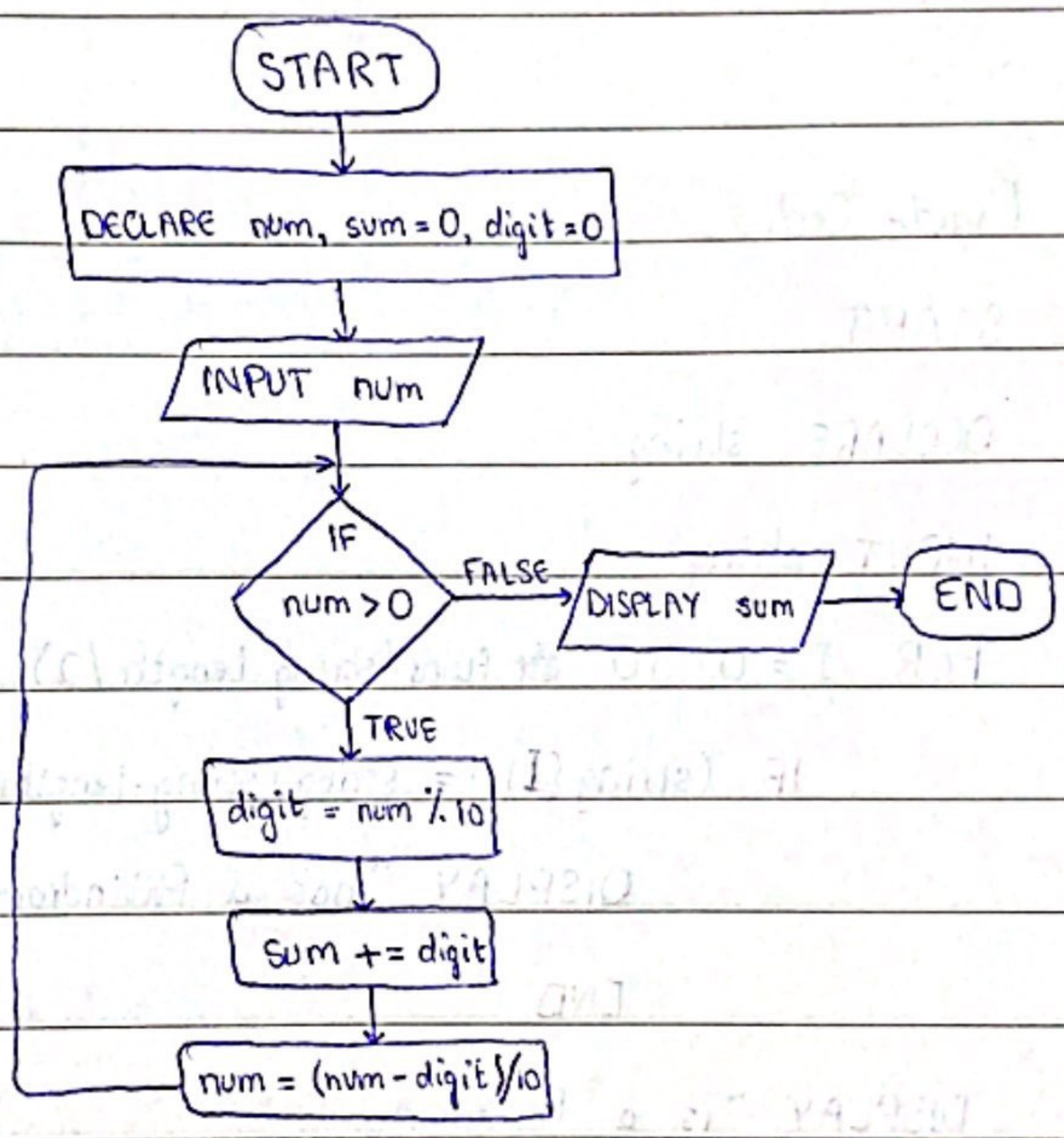
```
WHILE (num > 0)
    digit = num % 10
    sum += digit
    num = (num - digit) / 10
DISPLAY (sum)
END
```

Flowchart



16. Pseudo code

```
START
DECLARE address
INPUT address
IF (address has "@" AND address has ".com")
    DISPLAY "Address is valid"
END
```

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12. START

```
DECLARE a, b, total = 0, composite = false
INPUT a, b
FOR I = a TO (b+1)
    composite = false
    IF (I == 1)
        CONTINUE
    ELSE IF (I == 2)
        total += 1
    ELSE
        FOR J = 2 TO I
            IF (I % J == 0)
                composite = true
                BREAK
        IF (NOT composite)
            total += 1
DISPLAY (total)
END
```

13. Pseudo code

```
START
DECLARE fuel_cost, food_cost, lodging_cost, total_cost
INPUT fuel_cost, food_cost, lodging_cost
total_cost = fuel_cost + food_cost + lodging_cost
DISPLAY (total_cost)
END
```

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19. Pseudo code

```
START
DECLARE salary, working_hours, overtime
INPUT salary, working_hours, overtime
IF (working_hours > 160)
        salary += overtime
DISPLAY (salary)
END
```

20. INPUT:

WHEAT	200	6
EGGS	100	12
MILK	200	2
OIL	400	4

OUTPUT:

4400

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