Date:

Q1. Write a psuedocode to find the maximum number in any of three variables.

```
START
INPUT num1
INPUT num2
INPUT num3

IF num1>num2 AND num1>num3 THEN
                    PRINT "Max no. is", n1
ELSE IF num2>num1 AND num2>num3 THEN
        PRINT "Max no. is", n2
ELSE
    PRINT "Max no. is", n3
END.
```

Q2. A parking lot charges fee based on no. of hrs vehicle is parked. The first hr costs $5 and each additional hour costs $3. Write a psuedocode to calculate total parking fee.

```
START
INPUT "number of hours the car was parked", hr

IF hr <= 1 THEN
SET Total = 5
ELSE
SET addhr = hr - 1
SET Total = 5 + (3 * addhr)
ENDIF
Print "Total parking fee is", Total
END
```

Input: hr
IF hr == 1 THEN total = 5
ELSE r = hr - 1
total = 5 + 3r

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Q4. Write a psuedocode to find whether a number is even or odd.

```
START

INPUT num

SET rem = num % 2   OR   SET rem = num MOD 2

IF rem = 0 THEN
   Print "number is even"
ELSE
   Print "number is odd"

END
```

ALGORITHMS:-

Q1. A teacher wants to track student attendance. If a student's attendance falls below 75%. they will recieve a warning. Write an algorithm to calculate attendance and issue a warning if necessary.

1. Ask the user to enter total days.
2. Ask the user to enter the no. of days attended.
3. Set Attendance to $\frac{\text{Total days}}{\text{Attended days}} * 100$
4. IF Attendance =< 75 THEN
   IF "yes" PRINT "You're attendance is below 75%, "attenda
   ELSE {
   Print "Your attendance is ", attendance.

Q2. Write an algorithm to calculate gross pay of employee.

1. Ask the user to enter hours
2. Ask the user to enter payrate
3. Set Grosspay to (hours * payrate)
4. Display Gross pay

Q5. Write an algorithm to calculate grade based on thei marks.

1. Ask user to enter marks
2. IF marks $\leq$ 100 AND marks $\geq$ 80 THEN
   DISPLAY "A GRADE"
3. IF marks $\geq$ 75 THEN
   DISPLAY "B GRADE"
4. IF marks $\geq$ 50 THEN
   DISPLAY "C GRADE"

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Q3. Write an algorithm for making a simple calculator with all the operators.

1. Ask user to enter number 1
2. Ask user to enter number 2
3. Ask user to enter operation
4. IF operation is " + " THEN
   SET ans = number1 + number2
5. IF operation is " - " THEN
   SET ans = number1 - number2
6. IF operation is " x " THEN
   SET ans = number1 x number2
7. IF operation is " ÷ " THEN
   SET ans = number / number2
8. IF operation is " % " THEN
   SET ans = number1 (MOD) number2
9. Display ans

Q4. Write an algorithm to calculate the total bill for a customer at a resturant, including a tip. The tip is 15% of the total amount if the customer chooses to add it.

1. Ask user to input no. of dishes
2. Ask user to enter price of dishes
3. Ask user if they wish to pay tip
4. SET TOTAL to (no. of dishes) x (price of dishes)
5. IF User wishes to pay tip THEN
   SET TOTAL to 1.15 (TOTAL)
   ELSE TOTAL remains unchanged.
6. DISPLAY TOTAL