PSEUDOCODE

Q1:

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1 - START
2 - INPUT num1, num2, num3
3 - IF num1 > num2 AND num1 > num3 THEN
        PRINT num1 is the greatest
4 - ELSE IF num2 > num1 AND num2 > num3 THEN
        PRINT num2 is the greatest
5 - ELSE
        PRINT num3 is the greatest
6 - END
```

Q2:

```
1 - START
2 - INPUT hours_parked
3 - SET additional_hours = 0
4 - IF hours_parked < 1 THEN
        PRINT invalid input
5 - ELSEIF hours_parked = 1 THEN
        parking_fee = 5
6 - ELSE
        SET additional_hours = hours_parked - 1
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parking_fee = 5 + (additional_hours * 3)

7- ENDIF
8- PRINT "The total parking fee is: $", parking_fee
9- END

Q3:

1- START
2- SET total_cost = 0
3- SET discount = 100
4- REPEAT UNTIL all inputs are taken
INPUT item_price
total_cost = total_cost + item_price
5- IF total_cost > 100 THEN
total_cost = total_cost - discount
6- END IF
7- PRINT "The total cost is: $", total_cost
8- END

Q4:

1- START
2- INPUT number
3- IF number % 2 == 0 THEN
PRINT "The number is even"
4- ELSE
PRINT "The number is odd"
5- END IF
6- END

ALGORITHMS

Q1:

1- The teacher will input the total no. of classes held and the no. of classes the student has attended.
2- Calculate the student's attendance by using formula: $\left[\frac{\text{no. of classes attended}}{\text{total no. of classes}}\right] \times 100$
3- If the attendance is below 75%, the student will receive a warning.
4- Otherwise, the attendance is satisfactory.

Q2:

1- The user will input the no. of hrs the employee worked (hrs) and the amount earned by the employee in one hour (pay rate).
2- Calculate the grosspay by using the formula: [Gross pay = hrs * pay rate]
3- Display the Grosspay to the user.

Q3:

1- The user will input the first operand (num1) and an operator (+, -, *, /, %) and then the second operand (num2).
2- If the operator is (+), then the result = num1 + num2.
3- If the operator is (-), then the result = num1 - num2.
4- If the operator is (*), then the result = num1 * num2.
5- If the operator is (/), then the result = num1 / num2.
6- If the operator is (%), then the result = num1 % num2.
7- In case of (/ and %), num2 ≠ 0 and if num2 = 0, then display error.
8- Display the result to the user.

Q4:

1- The customer will provide the total bill of their order before including the tip.
2- The customer will be asked to include the tip which is equal to 15% of the total bill.
3- If the customer agrees to give the tip, the final bill will be the sum of the total bill and 15% of the total bill.
4- If the customer denies to give the tip, the total bill will remain same.
5- Display the final bill if the customer added the tip.

Q5:

1- The students will input their scoring marks out of 100.
2- If the range of the scoring marks is 80 to 100, the student will get A grade.
3- If the range of the scoring marks is 70 to 79, the student will get B grade.
4- If the range of the scoring marks is 60 to 69, the student will get C grade.
5- If the range of the scoring marks is 40 to 59, the student will get D grade.
6- If the scoring marks are below 40, the student will get F grade.
7- Display the grade to the students.