1. **. Implement an algorithm for determining if an Nth is a divisor of an n Number (i.e. 2 is a divisor of 6).  
       If so, determine if it’s an even number or odd number as well**:

 **Start**

 **Input**: enter the number num.

 **Input**: enter the divisor n.

 **Check if N is a divisor**:

* If num % n == 0, then n is a divisor of num.
* If the condition is **True**, proceed to the next step.
* If the condition is **False**, output "N is not a divisor of num." and stop.

 **Determine if the divisor is even or odd**:

* If n % 2 == 0, output "N is an even number."
* Else, output "N is an odd number."

 **End**

1. **Implement an algorithm where the user enters a number, and an appropriate month is displayed.**

 **Start**

 **Input**: enter a number between 1 and 12.

 **Check**:

* If the number entered is between 1 and 12 proceed to the next step.
* If the number is outside this range, display an error message and ask the user to enter a valid number.

 **Switch**:

* If the input number is 1, display "January".
* If the input number is 2, display "February".
* If the input number is 3, display "March".
* If the input number is 4, display "April".
* If the input number is 5, display "May".
* If the input number is 6, display "June".
* If the input number is 7, display "July".
* If the input number is 8, display "August".
* If the input number is 9, display "September".
* If the input number is 10, display "October".
* If the input number is 11, display "November".
* If the input number is 12, display "December".

 **End**

1. **Find the maximum number in any of three variables. (Write Pseudocode**)

**Start**

**Enter:“the first number: "**

**READ num1**

**Enter:"the second number: "**

**Read: num2**

**Enter: "the third number: "**

**Read:num3**

**If num1 >= num2 AND num1 >= num3:**

**max = num1**

**Else If num2 >= num1 AND num2 >= num3:**

**max = num2**

**Else:**

**max = num3**

**Output "The maximum number is: ", max**

**End**

1. **Write Pseudocode where the user enters a number, and an appropriate month is displayed.**

**Start**

**Enter: "number between 1 and 12 to represent a month: "**

**Read: monthNumber**

**Switch(monthNumber)**

**Case 1:**

**Output "January"**

**Case 2:**

**Output "February"**

**Case 3:**

**Output "March"**

**Case 4:**

**Output "April"**

**Case 5:**

**Output "May"**

**Case 6:**

**Output "June"**

**Case 7:**

**Output "July"**

**Case 8:**

**Output "August"**

**Case 9:**

**Output "September"**

**Case 10:**

**Output "October"**

**Case 11:**

**Output "November"**

**Case 12:**

**Output "December"**

**Default:**

**Output "Invalid input! Please enter a number between 1 and 12."**

**End Switch**

**End**