* **ALGORITHM TASK**

**Problem 1:**

Step1: Input Year = a

Step2: If remainder of a by 400 is zero print “It is a leap year”.

Step3: If remainder of a by 4 is zero then check remainder of a by 100 is not zero then print “It is a leap year. Else print “It is not a leap year.

Step4: End

**Problem 2:**

Step1: Input string

Step2: Input character which is to be counted.

Step3: Set the counter to zero

Step4: If the character of string is equal to input character , increment counter.

Step5: If the next character of string is not null the perform step 4.

Step6: End.

**Problem 3:**

Step1: Input base and power.

Step2: Set ans = 1

Step3: Multiply ans and base

Step4: Decrement base

Step5: If power is not equal to 0 perform step 3

Step5: End.

**Problem 4:**

Step1: Input radius

Step2: Calculate area = pie \*r\*r

Step3: Print area.

Step4: End.