Algorithms.

1. Write the algorithm to multiply two 4 digit numbers. Assume the computer knows nothing about multiplication and only about addition.

Algorithm:

1. Start.
2. Get input for two numbers using a and b
3. Set the result variable to zero.
4. Loop it to B times.
5. Add the result value to A each time
6. Return the result.
7. Stop.
8. How will you teach your computer to find the GCD(Greatest common Divisor of 2 non-prime numbers)?.
9. Start.
10. Get input for two numbers a and b.
11. Check if b is not equal to 0.

* Set temp=a%b.
* Set a=b.
* Set b=temp

1. Repeat unit b becomes 0.
2. Return the value a.
3. Stop.
4. Your computer has received a message in Morse Code. However instead of the .s ands, its replaced with and Everything else seems to be in the same structure as standard Morse code. How will you program your computer to this decrypt message. Eg: ;::;;; ;; ;; ;;;;;:::
5. Start.
6. Get the input for string containing ; and :
7. Replace ; with .

Replace : with –

1. Split the replaced morse code into words and letter (.split()).
2. Decode each morse code symbol using morse dictionary.
3. Join the letters and return the decoded meaasge
4. Stop.
5. Your computer needs to sort 5000 degree certificates from SRM University in reverse alphabetical order. How will you teach your computer to do this.
6. Start.
7. Get the list of 5000 names in array type.
8. Sort them in descending alphabet order (.sort) and compare them using (.localeCompare())
9. Return the sorted list.
10. Stop.

5 ) 1: Start

2: Set Name <- ‘Internship’

3: Print Name 4: Add ‘2025 ‘ to the beginning of Name

5: Print Name

6: Goto Step 2 and continue till you print Name(Internship) 5 times

7: Stop .

Algorithm:

1. Start.
2. Set name as ‘Internship’.
3. Set for count = 0 to 4, repeat step 4 and 5.
4. Print name.
5. Name = “2025” + name.
6. Stop.