Your assignment must cover the following sections **Marks : 3**

1. A well defined Cover Page
2. Problem Definition
3. Solution to the Assignment
4. Conclusion of what you learnt from the Assignment.
5. Find the Godel number of the Program **Marks : 7**

[B] IF X≠0 GOTO C

GOTO D

[C] ← – 1

Y ← Y + 1

← + 1

GOTO B

[D] IF ≠ 0 GOTO E

1. Deduce the program which has a value of **Marks : 8**
   1. 8399 b. 564299

1. If  **= { a, b, c, d, i, m, o, t, u, v } ;** What are the Godel numbers of the following strings **Marks : 6**
   1. covid b. iub c. automata
2. If  **= { m, n, o, p, q, r, s, t } ;** What strings are associated with the following Godel numbers? **Marks : 6**
3. 5835 b. 753 c. 621