## **IEEE SRM SB R&D DOMAIN**

## SECTION - 1

1. What machine learning algorithm is suitable for this graph?

A logistic regression model

```
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     main.py
                                                                                 Run
      1 → def fibonacci(n):
          a, b = 0, 1
      4 → for i in range(n):
           print(a, end=" ")
      6
           a, b = b, a + b
      8 n = int(input("How many terms of the Fibonacci sequence would you like to see? "))
     10 - if n <= 0:
     11 print("Please enter a positive number.")
        print(f"The first {n} terms of the Fibonacci sequence are:")
     14
         fibonacci(n)
2.
     Output
    How many terms of the Fibonacci sequence would you like to see? 10
    The first 10 terms of the Fibonacci sequence are:
    0 1 1 2 3 5 8 13 21 34
    === Code Execution Successful ===
```

3. Which of the following data structures uses a First In First Out (FIFO) approach?

Answer: Queue

4. Which of the following is a valid variable name in Python?

Answer: variable\_1

5. Which of the following sorting algorithms is considered the fastest in average case?

Answer: Merge Sort