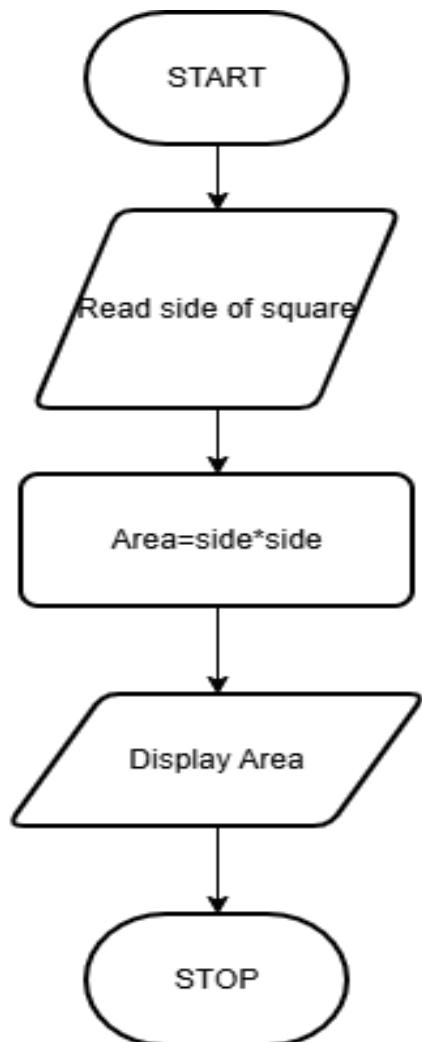


### 1.1.3. Calculate Area of the Square

#### **Algorithm: Area of a Square**

- 1. Read Start**
2. the value of side from the user
3. **Calculate** the area using the formula:  
$$\text{area} = \text{side} \times \text{side}$$
4. **Display** the value of area
- 5. Stop**

#### **Flowchart**



The screenshot shows a web-based programming environment on the CodeTantra platform. The title bar indicates the URL is [sitnagpur.codetantra.com/secure/course.jsp?euclid=693fa60b79739f1e1d81ca43#/contents/693fa6b179739f1e1d81cc18/693fa75c79739f1e1d81ce1e/66c9ce06becb4b4367bd62fd](https://sitnagpur.codetantra.com/secure/course.jsp?euclid=693fa60b79739f1e1d81ca43#/contents/693fa6b179739f1e1d81cc18/693fa75c79739f1e1d81ce1e/66c9ce06becb4b4367bd62fd). The main content area displays a challenge titled "1.1.3. Calculate Area of the Square". The challenge instructions ask the user to write a Python program that prompts the user to enter the *side\_length* of a square and computes the area of the square. Below the instructions are sections for "Formula", "Input Format", and "Output Format". The "Formula" section contains the formula  $\text{Area} = \text{side\_length}^2$ . The "Input Format" section states that the input is a positive integer value representing the *side\_length*. The "Output Format" section states that the output is a positive integer value representing the area. On the right side of the interface, there is a code editor window titled "AreaSqua..." containing the following Python code:

```
1 # Read the side length of the square as an integer
2 side = int(input())
3
4
5 area = side * side
6
7
8 print(area)
9
10
```

Below the code editor, there are tabs for "Terminal" and "Test cases". At the bottom of the interface are buttons for navigation: "< Prev", "Reset", "Submit", and "Next >".