Step 1: Problem Analysis Chart

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| Section 1: Given Data | Section 2: Required Results |
| lengthSide  FOURSIDES | area  pMeter |
| Section 3: Required Processing | Section 4: Solution Alternatives |
| area= lengthSide\*lengthSide  pMeter=FOURSIDES\*lengthSide | Store the value of lenthSide as a variable  Store the value of FOURSIDES as a constant of 4  area= lengthSide^2 |

Step 2: Interactivity Chart

Step 3: Input, Processing, Output Chart (IPO Chart)

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| Input | Processing | Module Reference | Output |
| FOURSIDES = numeric and constant  lengthSide = numeric | 1. Initialise the constant of FOURSIDES 2. Enter the value of lengthSide 3. Calculate the area and pMeter 4. Print the area and pMeter 5. End | Initialise  Read  Calculate  Print  SquareMain | area=numeric  pMeter=numeric |

Steps 4 & 5: Algorithms & Flowcharts

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| Algorithm | Flowchart |
| SquareMain  Initialise  Read  Calculate  Print  End |  |

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| Algorithm | Flowchart |
| Initialise |  |

|  |  |
| --- | --- |
| Algorithm | Flowchart |
| Read |  |

|  |  |
| --- | --- |
| Algorithm | Flowchart |
| Calculate |  |

|  |  |
| --- | --- |
| Algorithm | Flowchart |
| Print |  |

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