Planning for Computer programs:

General steps

1. Read the Question!
2. Determine input
3. Determine output
4. What processing is required from input to output??
5. Write out algorithm (data and logic flow only)
6. Set up at least two sets of Test data

**12DTP: Example on program development**

**Question**

Input two numbers and output their sum and product.

**Input**

|  |  |  |
| --- | --- | --- |
| *VariableName* | *Type* | *Availablity* |
| number1 | Float | User input -keyboard |
| number2 | Float | User input -keyboard |

**Output**

|  |  |  |
| --- | --- | --- |
| *Variablename* | *format* | *where* |
| sum | 2 decimal places | screen |
| product |

**Processing**

sum 🡨 number1 + number2

product 🡨 number1 \* number2

**Pseudocode**

Enter data

Do calculations for sum and produt

Display sum and product

**Test Data**

|  |  |  |  |
| --- | --- | --- | --- |
| number1 | number2 | sum | product |
| 5 | 14 | 19 | 70 |
| 1.2 | 5.9 | 7.1 | 7.08 |
| -8 | 500 | 492 | -4000 |

**Testing plan**

Version 1 - enter the data and test for syntax

Version 2 - calculation for sum

Version 3 - calculation for product