# DESIGN

Main

# Initialize Scanned Input

# Initialize int number, width

# Output: Enter an integer

# number <- input

# Output: Enter the width

# width <- input

# formattedString = format(number, width)

# Output: The formatted number is formattedString

### format ###

# Initialize String numberAsString

# if numberAsString.length > width

# return numberAsString

# loop: while numberAsString.length < width

# if numberAsString.length < MAX\_INT

# numberAsString = “0” + numberAsString

# else

# break

# return numberAsString

Diagram

A screenshot of a computer

Description automatically generated

# TEST PLAN

|  |  |  |
| --- | --- | --- |
| Test # | Input | Expected Output |
| 1 | Enter an Integer: 34  Enter the width: 4 | 0034 |
| 2 | Enter an Integer: 34  Enter the width: 5 | 00034 |
| 3 | Enter an Integer: 34  Enter the width: 1 | 34 |

# SCREEN SHOTS

1

A blue screen with white text

Description automatically generated

2

A blue screen with white text

Description automatically generated

3

A blue screen with white text

Description automatically generated