# DESIGN

## Pseudocode

# Initialize Scanner object

# output “Enter a month in the year”

# Input integer month

# output “Enter a year”

# Input integer year

# output month name and year, and “has n days”

# where n is:

# for months 1, 3, 5, 7, 8, 10, 12

# N is 31

# for months 4, 6, 9, 11

# N is 30

# for month 2, determine if year is a leap year

# Calculation:

# A leap year must be evenly divisible by 4

# If a year is evenly divisible by 100:

# If it is evenly divisible by 400, it is a leap year

# If it is NOT evenly divisible by 400, it is not a leap year

## Flowchart

A screenshot of a computer program

Description automatically generated

# TEST PLAN

|  |  |  |
| --- | --- | --- |
| Test # | Input | Expected Output |
| 1 | Enter a month in the year (e.g., 1 for Jan): 2  Enter a year: 2012 | February 2012 has 29 days |
| 2 | Enter a month in the year (e.g., 1 for Jan): 4  Enter a year: 2005 | April 2005 has 30 days |
| 3 | Enter a month in the year (e.g., 1 for Jan): 2  Enter a year: 2006 | February 2006 has 28 days |
| 4 | Enter a month in the year (e.g., 1 for Jan): 2  Enter a year: 2000 | February 2000 has 29 days |

# SCREEN SHOTS

Test 1

A blue screen with white text

Description automatically generated

Test 2

A blue screen with white text

Description automatically generated

Test 3

A blue screen with white text

Description automatically generated

Test 4

A blue screen with white text

Description automatically generated