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# System Requirements Specification Index

For

## Python Skills Evaluation

Version 1.0

## USE CASE DESCRIPTION

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### Use Case 1

Write a python program to convert an integer to a roman numeral.

**Input:**512

**Output:** DXII

#### Description

1. Define an instance method **int\_to\_roman(self, num)** in **Roman** class.
2. Take an integer as console input in **main ()** method, from user.
3. Pass this integer to method **int\_to\_roman(self, num)**.
4. Write the logic inside the method **int\_to\_roman(self, num)** to convert an integer to roman numeral.
5. Finally return the result as roman numeral from the method **int\_to\_roman(self, num)** to **main()** and display it.

### Use Case 2

Write a python program to convert a roman numeral to an integer.

**Input:** DXII

**Output:** 512

#### Description

1. Define an instance method **roman\_to\_int (self, s)** in **Integer** class.
2. Take roman number as console input in **main ()** method, from user.
3. Pass this roman number to method **roman\_to\_int (self, s)**.
4. Write the logic inside the method **roman\_to\_int (self, s)** to convert roman numeral to an integer.
5. Finally return the result as integer from the method **roman\_to\_int (self, s)** to **main()** and display it.

### Execution Steps to Follow:

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.
3. The editor Auto Saves the code.
4. If you want to exit(logout) and to continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. To run application for use case1 use the following command  
`python3 integer_to_roman.py`
7. To run application for use case2 use the following command  
`python3 roman_to_integer.py`
8. Mandatory: Before final submission run the following command  
`python3 -m unittest`
9. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on “Submit Assessment” after you are done with code.
10. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.

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