**Roman Numeral Lab   
Python Conditionals and Functions**

**Part 1:**

1)  Write a Python program, that prompts the user to enter a number within the range of 1 through 10.  The program will then display the Roman numeral version of that number.  if the number is outside the range of 1 through 10, the program should display an error message. [HINT: this program is one big if, elif, elif,elif... else structure]

Roman Numerals:

**1 = I  
  2 = II  
  3 = III  
  4 = IV  
  5 = V  
  6 = VI  
  7 = VII  
  8 = VIII  
  9 = IX  
 10 = X**

**Submit your python file (.py) to Sakai**

**Part 2:**

Modify the program to use functions.

1) use Save As to change the name of your program so you won't overwrite the Part 1 program.

2) Define a main function by adding this before the first line of your program

         def main()

Now indent your entire program, selecting everything below def main(), and choosing "Indent Region" from the format menu.

Now, add this at the end. Note this is NOT indented.  It must be all the way to the left

main()

Run your program to be sure it still works.

3) Now define a getInteger() function to get the number from the user.  
Add it on the next to the last line of the program, right above the call to main()

[Hint: don't cut/paste the code from here as the indenting will be messed up.   Type the function into your program]

 def getInteger()  
           number = int(input("Enter a number between 1 and 10: "))  
           return number

Now, modify the main() function to call getInteger() rather than getting the number directly from the user using:

              number = getInteger()

If necessary, replace the variable number with whatever variable you were using to hold the number.

Run your program to be sure it still works.

4) Finally we're going to put all the computation into its own function.  
On the next to the last line of the program, right above the call to main(), add

def printRomanNumeral(number)

Cut all of the computation from your main() function and paste it here.  
Underneath the call to getInteger()  in your main function, enter

          printRomanNumeral(number).

Test the program to be sure it still works

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