

INT – 108 : PYTHON PROGRAMMING

PROJECT NAME : Converter to convert given Roman to integer

Project done by

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INT 108 : PYTHON PROJECT

CODE FOR THE CONVERTER TO CONVERT ROMAN NUMARAL TO INTEGRER :

#Roman to integer

```
def romanToInt(s):
```

```
    """
```

```
    :type s: str
```

```
    :rtype: int
```

```
    """
```

```
    roman =
```

```
{'I':1,'V':5,'X':10,'L':50,'C':100,'D':500,'M':1000,'IV':4,'IX':9,'XL':40,'XC':90,'CD':400,'CM':900} #All possible Values
```

```
    i = 0
```

```
    num = 0
```

```
    while i < len(s):
```

```
        if i+1<len(s) and s[i:i+2] in roman:
```

```
            num+=roman[s[i:i+2]]
```

```
            i+=2
```

```
        else:
```

```
            #print(i)
```

```
            num+=roman[s[i]]
```

```
            i+=1
```

```
    return num
```

```
x=input("Enter an number in Roman Numeral: ")
```

```
print("Value in decimal is %d"%romanToInt(x))
```

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/User/AppData/Local/Programs/Python/Python310/rtoi.py ====
Enter an number in Roman Numeral: MMXXII
Value in decimal is 2022
>>>
```

Ln: 7 Col: 0

10°C Haze 21:00 15-12-2022

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/User/AppData/Local/Programs/Python/Python310/rtoi.py ====
>>> Enter an number in Roman Numeral: VICCVII
Value in decimal is 213
>>>
```

Ln: 8 Col: 0

10°C Haze 20:58 15-12-2022

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/User/AppData/Local/Programs/Python/Python310/rtoi.py ====
Enter an number in Roman Numeral: MCCXX
Value in decimal is 1220
>>>
```

10°C Haze 20:58 15-12-2022

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:/Users/User/AppData/Local/Programs/Python/Python310/rtoi.py ====
Enter an number in Roman Numeral: XXX
Value in decimal is 30
>>>
```

10°C Haze 20:57 15-12-2022