

Q.1. Write a program to convert seconds into hour:minute:second format

Test cases:

1. Input: 7845
Output: 2 Hours 10 Minutes 45 Seconds
2. Input: 9871
Output: 2 Hours 45 Minutes 31 Seconds

Refute Test cases:

1. Input: 287.8
Output: ValueError: invalid literal for int() with base 10: '287.8'
2. Input: 2673seconds
Output: ValueError: invalid literal for int() with base 10: '2673seconds'

In Python, since we are taking input for int data type for seconds, its unable to read values of string or float data type.

Hence it throws a ValueError

Program:

```
seconds=int(input("Enter seconds: "))
hrs=int(seconds/3600)
mins=int(seconds%3600/60)
sec= int(seconds%3600%60)
print("{:d} Hours : {:d} Minutes : {:d} Seconds".format(hrs,mins,sec))
```

Output:

Test Cases :

Input 1 :

```
Enter seconds: 7845
2 Hours : 10 Minutes : 45 Seconds
```

Input 2 :

```
Enter seconds: 9871
2 Hours : 44 Minutes : 31 Seconds
```

Refute Test Cases :

Input 1 :

```
Enter seconds: 287.8
Traceback (most recent call last):
  File "e:\SRM\university projects\pps\Refute Question Assignment\Questions\Hr Min Sec Format\hrMinSec.py", line 1, in <module>
    seconds=int(input("Enter seconds: "))
ValueError: invalid literal for int() with base 10: '287.8'
```

Input 2 :

```
Enter seconds: 2673seconds
Traceback (most recent call last):
  File "e:\SRM\university projects\pps\Refute Question Assignment\Questions\Hr Min Sec Format\hrMinSec.py", line 1, in <module>
    seconds=int(input("Enter seconds: "))
ValueError: invalid literal for int() with base 10: '2673seconds'
```

Q.2. Write a program to count the numbers between A and B which is multiple of C

Test cases:

1. Input:

123 456 100

Output:

3

2. Input:

1 5 10

Output:

-1

Refute Test cases:

1. Input:

i7 25 65

Output:

ValueError: invalid literal for int() with base 10: 'i7'

2. Input:

Hello7 65 yu

Output:

ValueError: invalid literal for int() with base 10: 'Hello7'

Here, since one of the inputs is string, its unable to convert to integer as the value taking input is only accepting integer values.

Hence it throws a ValueError.

Program:

```
A,B,C=input().split()
A,B,C=int(A),int(B),int(C)
c=0
for i in range(A,B+1,1): #range from A -> B
    if(i%C==0 or i%C==0): #check for numbers divisible by C -> multiple of C
        c+=1
if(c==0):
    print(-1)
else:
    print(c)
```

Output:

Test Cases :

Input 1 :

```
123 456 100
3
```

Input 2 :

```
1 5 10
-1
```

Refute Test Cases :

Input 1 :

```
i7 25 65
Traceback (most recent call last):
  File "e:\SRM\university projects\pps\Refute Question Assignment
    A,B,C=int(A),int(B),int(C)
ValueError: invalid literal for int() with base 10: 'i7'
```

Input 2 :

```
Hello7 65 yu
Traceback (most recent call last):
  File "e:\SRM\university projects\pps\Refute Question Assignment
    A,B,C=int(A),int(B),int(C)
ValueError: invalid literal for int() with base 10: 'Hello7'
```