Python Assignment #1

ECE 330 – Reversed Numbers Report

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Reverse Number Code Program and Output

In [1]:
```
#Clarizza Morales
#ECE-330 Software Design
#Python Assignment #1
```

In [3]:
```
def ReverseDigits(numberToReverse):
    number_to_string = str(abs(numberToReverse)) #convert number to reverse to a string value for easier reversion
   # number_to_string = number_to_string.strip()
    number_to_string = number_to_string[::-1] #reversing the string
    reversedNum = int(number_to_string) #convert string back to integer value

    Bits64MAX = 9223372036854775807 #maximum integer range for a 64-bit architecture
    Bits64MIN = -9223372036854775807 #minimum integer range for a 64-bit architecture

    NaN = "NaN"
    if reversedNum >= Bits64MAX or reversedNum <= Bits64MIN: #condition if number overflows max or min values
        return NaN
        print("Number above or below 64-bit integer range")
    elif numberToReverse < 0:
        return -1 * reversedNum #return a negative number if user's num is negative
    else:
        return reversedNum



ReverseDigits(123)
ReverseDigits(-123)
```

Out[3]:
```
-321
```

Figure 1. Code and output