Name: _____ **Net ID:** _____ (ex: abc123)

CSCI-UA.0002 – Strings

1. What is the output of the following code if `s = 'omg wat!'`?

   1. `print(s[-1])` _____ **!**
   2. `print(s[:3])` _____ **omg**
   3. `print(s[1] + s[5:])` _____ **mat**
   4. `print(s[1:3] + s[8])` _____ **error**
   5. `print(s[-4:-1])` _____ **wat**
   6. `s[0] = ''`
      `print(s)` _____ **error**

2. Write a function called limit_length. It takes a string and a max length as arguments and it returns:

   1. the original string if the original string's length is less than or equal to the max length passed in
   2. the original string truncated so that that the part of it that goes over the max length is replaced by elipses (...) if the original string's length exceeds the max_length

   For example: `limit_length('hello world', 5)` would return `'hello...'`

```
def limit_length(s, length):
  if(len(s) > length):
    return s[:length] + '...'
  return s
```

3. Write a function called `is_numbers_only` (without using the string methods isnumeric, isdigit, isalpha, isalnum, etc.). It should take a single argument, a string. It should return a boolean value indicating whether or not all of the characters in the string given are numbers (0 through 9). For example:

```
is_numbers_only('hello')  # False
is_numbers_only('1hello') # False
is_numbers_only('12')     # True
is_numbers_only('1h2')    # False
```

```
def is_numbers_only(s):
   for ch in s:
     num = ord(ch)
     if num < 48 or num > 57:
       return False
   return True
```