```
# Finds Duplicated Substring of Length n
def find dup str(s,n):
 i = 0 # Increment
 empty string = ""
 # While Loop
 while True:
   # Slice
   sub_string = slice(i, i+n)
   sub_string = s[sub_string]
   # Remaining String
   remaining_string = slice(i+n, len(s))
   remaining_string = s[remaining_string]
   # Check for Duplicate String
   if sub_string in remaining_string:
     return sub_string
   i += 1
  return empty_string
s = "abcdefbcdgh"
n = 3
print("Duplicate String is: ", find_dup_str(s,n))
# Find Longest Duplicated Substring
def find_max_dup(s):
 # set length of substring to the max length
 n = len(s)
 # set variables to empty
 empty_string = ""
  max_dup = ""
 # while Loop
 while True:
   # calls find duplicate substring function
   max_dup = find_dup_str(s, n)
   # returns if substring was found
   if max_dup != "":
     return max dup
   # decrement the length of substring
   n -= 1
 # returns empty string if no substring was found
  return empty_string
```

s = "abcdefbcdgh"

print("Max Duplicate is: ", find_max_dup(s))

In [1]: runfile('C:/Program Files (x86)/Work/Python/Python Dwayne Solutions/HW 1/p3_Fraser_Dwayne.py', wdir='C:/Program Files (x86)/Work/Python/Python Dwayne Solutions/HW 1')
Duplicate String is: bcd
Max Duplicate is: bcd
In [2]: