Lecture 02 Exercises CS 51P – Fall 2022

1. Write a program that asks the user for a word and a positive integer and then writes the word that number of times with an exclamation point and a space in between.

```
word:
    happy
positive integer:
    3
happy! happy! happy!
```

2. After executing each snippet of code, the variable val stores a value of type bool. What value does it store?

```
A) val = (5 > 0 \text{ and } 5 < 10)
```

B)
$$n = 25$$

 $val = (n % 2 == 0 or n % 3 == 0)$

D) val = not True and False

3. Consider the following program:

```
s1 = int(input())
if s1 % 4 == 0:
    print(4*s1)
if s1 % 2 == 0:
    print(2*s1)
else:
    print(s1)
```

What gets printed if the user inputs 2?

If they input 3?

If they input 4?

If they input 5.0?

4. Consider the following program:

```
x = int(input("pos int?\n\t"))

if x == 13:
    print("mine too!")

else:
    if x > 30 or x < 10:
        print("mine is 13")

    else:
        if x == 19:
            print("19!")
        else:
            print("?")

print("!")</pre>
```

Convert this program to a program with the same behavior that doesn't use nested ifstatements.