

Name: \_\_\_\_\_ CM: \_\_\_\_\_ Section: \_\_\_\_\_ Grade: \_\_\_\_\_ of 10

1. What is the main purpose of the tkinter library, as you have seen so far in the videos?

2. What is the main purpose of the MQTT library, as you have seen so far in the videos?

**Consider the following code**

```
root = tkinter.Tk()
root.title("Welcome")
frame1 = ttk.Frame(root, padding=20)
frame1.grid()
say_hello_button = ttk.Button(frame1, _____="Say Hello")
```

```
say_hello_button.grid(_____)
```

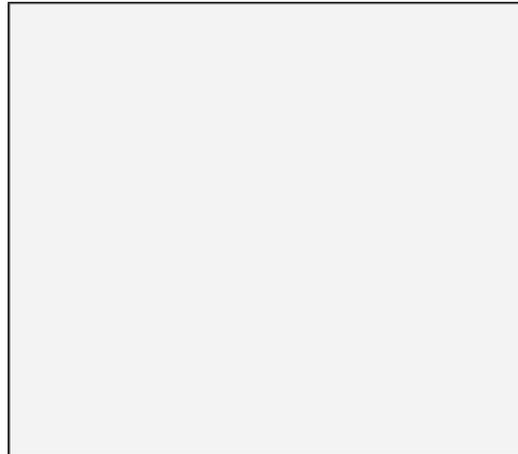
```
say_hello_button['command'] = _____
```

```
entry_box = ttk.Entry(frame1)
entry_box.grid(_____)
```

```
root.mainloop()
```

3. Fill in the blank so that the button has the words, "Say Hello" on it.

4. Draw in the box to the right what you expect the window would look like when you run the program. Assume the .grid() commands are empty for now.



5. What is the purpose of mainloop()?

6. Add a lambda function callback above so that pressing the **say\_hello\_button** prints hello on the console.

7. Add parameters to the calls to .grid() above so that the **entry\_box** is to the right of the **say\_hello\_button** .

8. Write a line of code that would assign the text currently in the **entry\_box** to a variable called **x**.