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Pencil and Paper for Lesson 6

1.a) Because
#1) static nested class does not have direct access of instance members of enclosing class.
#2) methods should be declared static (Static nested class cannot access non-static (instance) data member or method).

#3)static nested class can't access local variables of enclosing class.

b)

```
JButton submitButn = new JButton(SUBMIT);
 submitButn.addActionListener(());

JButton clearButn = new JButton(CLEAR);
clearButn.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent evt) {
    lowerText.setText("");
    System.out.println("Clearing output text area.");
   }
});

//the inner classes
public void getActionListener(JButton butt){
class SubmitListener implements ActionListener {
public void actionPerformed(ActionEvent evt) {
inputString = upperText.getText();
System.out.println("Got input: "+inputString);
```

```
}
}
butt.getActionListener(new SubmitListener());
}
```

2. a)Make it a local inner class, defined within myMethod()

method myMethod() will make use of the inner class it better to use local inner class because it has access to instance variable and have access local variable and method in enclose class and variable with in the body.

b) method myMethod() will make use of the inner class it better to use anonymous inner class making an instance of an object with certain “extras” such as overloading methods of a class or interface, without having to actually subclass a class.

c) method myMethod() will make use of the inner class it better to use a member inner class ,it is the best way to it help for calling and access with out creating instance class .