Prelab 5 Answers

1. We use try/except statements to handle bad files because it is very difficult to list all of the possible correct files names.

2. Here's my version

```
done = False
while not done:
    try:
        x1,y1,x2,y2 = eval(input("Enter x1,y1,x2,y2"))
        slope = (y2-y1)/(x2-x1)
        print( "The slope of that line is %.2f"% slope )
        done = True
    except ValueError:
        print( "You need to enter 4 numbers" )
    except ZeroDivisionError:
        print( "That is a vertical line." )
```

3. Again, here's mine:

```
commands = ["flip", "copy", "quit"]
done = False
while not done:
        for cmd in commands:
                print( cmd, end = " ")
        cmd = input( "=> " )
        if  cmd == "copy":
                copy()
        elif cmd == "flip":
                flip()
        elif cmd === "quit":
                done = True
```

4. And mine:

```
def flip(pic):
    w = pic.getWidth()
    h = pic.getHeight()
    pic2 = picture.Picture(w, h)
    for x in range(w):
        for y in range(h):
            r = pic.getPixelRed(x,y)
            g = pic.getPixelGreen(x,y)
            b = pic.getPixelBlue(x,y)
            pic2.setPixelRed(w-x-1, y, r)
            pic2.setPixelGreen(w-x-1,y,g)
```

```
            pic2.setPixelBlue(w-x-1,y,b)
pic2.setTitle("flip")
return pic2
```