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

```python
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:

```python
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:

```python
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