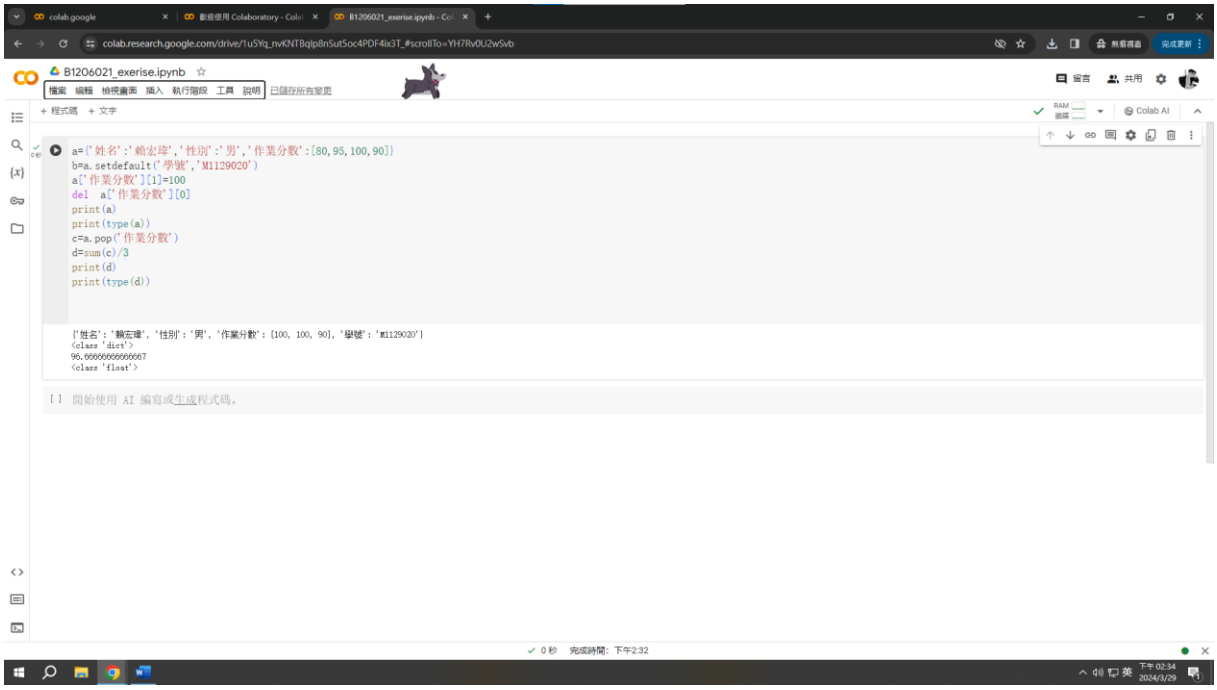https://github.com/B1206021/HAPL/tree/main/20240329