```
mkdir project2

cd project2

cat > calculator_https.py

from flask import Flask
from flask_restx import Resource, Api, reqparse

app=Flask(__name__)
api=Api(app)

carpim_parser=reqparse.RequestParser()
carpim_parser.add_argument('a',
                           type=int,
                           required=True,
                           help='a sayisini yaz')

carpim_parser.add_argument('b',
                           type=int,
                           required=True,
                           help='b sayisini yaz')

carpim_parser.add_argument('secim',choices=('toplama',
                                            'cikarma',
                                            'carpma',
                                            'bolme'))

@api.route('/calculator')
class calculator(Resource):
    @api.expect(carpim_parser)
    def get(self):
        """Calculator API"""
        args=carpim_parser.parse_args()
        if args.secim=='toplama':
            return args.a+args.b
        elif args.secim=='cikarma':
            return args.a-args.b
        elif args.secim=='carpma':
            return args.a*args.b
        elif args.secim=='bolme' and args.b!=0:
            return args.a/args.b
        elif args.secim=='bolme' and args.b==0:
            return 'matematik bu islem olmaz'
        elif args.secim==None:
            return 'secim yap'

if __name__ =='__main__':
    app.run(debug=True,
    host='0.0.0.0',
    port=8443,
    ssl_context=('certificate.pem', 'privatekey.pem'))
```

```
cat > requirements.txt
flask
flask-restx


#docker pull python:3.9.23

wget http://ilkerkayagunes.com/knowledgeclub/9_10_11_temmuz/privatekey.pem

wget http://ilkerkayagunes.com/knowledgeclub/9_10_11_temmuz/certificate.pem

ya da :

openssl req -x509 -newkey rsa:2048 -keyout privatekey.pem -out certificate.pem
-days 365 -nodes


cat > Dockerfile

FROM python:3.9.23
WORKDIR /project2
COPY . /project2
RUN pip install -r requirements.txt
EXPOSE 8443
CMD ["python3.9","calculator_https.py"]


docker build -t calc2 .


docker run -d -p 8443:8443 --name myhttpscalculator calc2
```