# CONTAINERIZE THE APP

| Team ID | PNT2022TMID21261 |
|---------|------------------|
| Project Name | Personal Expense Tracker Application |

## Download Docker Desktop and login



## Dockerfile code

FROM python:2.7

LABEL maintainer="Suriya M S, Suriya.ms@ibm.com" RUN apt   get update

RUN mkdir /app
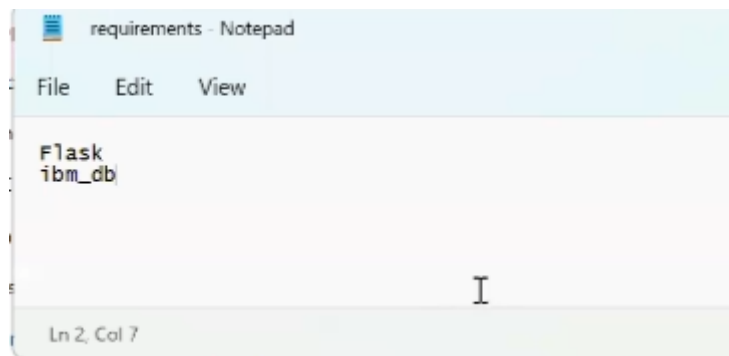
WORKDIR /app

COPY . /app

RUN pip install -r requirements.txt

EXPOSE 5000

ENTRYPOINT [ "python" ]

CMD [ "app.py" ]

**Requirements.txt**



**Screenshots:**

```yaml
11          replicas: 2
12        strategy:
13          type: RollingUpdate
14          rollingUpdate:
15            maxSurge: 1
16            maxUnavailable: 0
17        template:
18          metadata:
19            labels:
20              app: example-app
21          spec:
22            containers:
23            - name: example-app
24              image: aimvector/python:1.0.0
25              imagePullPolicy: Always
26              ports:
27              - containerPort: 5000
28              resources:
29                requests:
30                  memory: "64Mi"
31                  cpu: "50m"
32                limits:
33                  memory: "256Mi"
```

```yaml
25          imagePullPolicy: Always
26          ports:
27          - containerPort: 5000
28          resources:
29            requests:
30              memory: "64Mi"
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\git\python> kubectl apply -f .\kubernetes\deployments\deployment.yaml
deployment.apps/example-deploy created
PS C:\git\python> kubectl get deploy
NAME             READY   UP-TO-DATE   AVAILABLE   AGE
example-deploy   2/2     2            2           10s
PS C:\git\python> kubectl get pods
NAME                              READY   STATUS    RESTARTS   AGE
example-deploy-d566cf9bc-nzlqk    1/1     Running   0          29s
example-deploy-d566cf9bc-wmph8    1/1     Running   0          29s
PS C:\git\python>
```