SETUP & RUN GUIDE (Docker & Spark Project)

a. Install Docker :
  > sudo apt update
  > sudo apt install -y   ca-certificates curl   gnupg lsb-release
  > sudo mkdir -p /etc/apt/keyrings curl -fsSL
    https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o
    /etc/apt/keyrings/docker.gpg
  > echo "deb [arch=$(dpkg --print-architecture)   signed-
    by=/etc/apt/keyrings/docker.gpg]
    https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo
    tee /etc/apt/sources.list.d/docker.list > /dev/null
  > sudo apt update
  > sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin
    docker-compose-plugin
  > sudo usermod -aG docker $USER
  > docker run hello-world   #To test installation
  > docker compose version #To test installation

b. Prepare the Project : app.py + Dockerfile + docker-compose.yml
c. Run the Project :
  > docker compose up –build

d. Checking the project at : http://localhost:8080 (Master UI)
e. Acceed to the Master node (defined in Dockefile)
f. Lunch the Application : spark-submit --master spark://spark-master:7070
   /opt/bitnami/spark/app/app.py