```
sidmarkam@LAPTOP-A34K717R:~$ mkdir exam_project
cd exam_project
sidmarkam@LAPTOP-A34K717R:~/exam_project$ # Creating a simple javascript file
echo "console.log('Hello, World!');" > app.js
-bash: !': event not found
sidmarkam@LAPTOP-A34K717R:~/exam_project$ ls
sidmarkam@LAPTOP-A34K717R:~/exam_project$ nano app.js
sidmarkam@LAPTOP-A34K717R:~/exam_project$ echo app.js
app.js
sidmarkam@LAPTOP-A34K717R:~/exam_project$ node app.js
Hello, World!
```
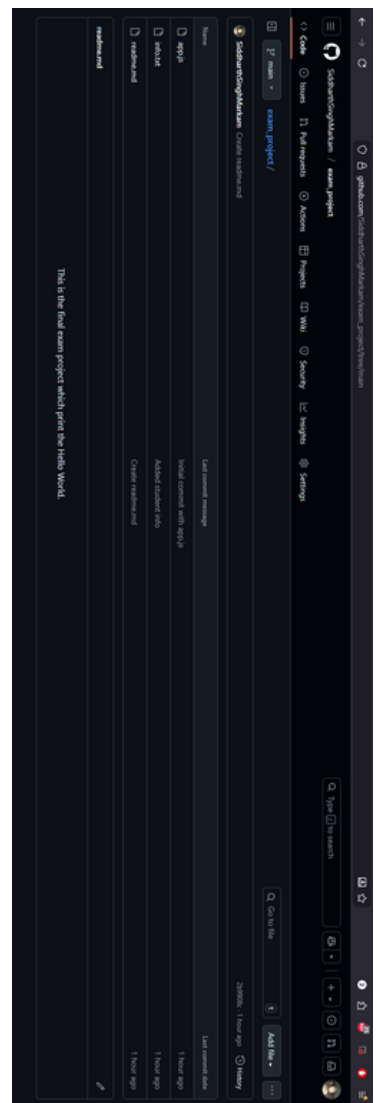
```
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git remote set-url origin git@github.com:SiddharthSinghMark
m/exam_project.git
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 562 bytes | 562.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:SiddharthSinghMarkam/exam_project.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git branch -M main
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git add app.js
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git commit -m "Initial commit with app.js"
[main (root-commit) 087d6f0] Initial commit with app.js
 1 file changed, 1 insertion(+)
 create mode 100644 app.js
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git checkout -b feature
Switched to a new branch 'feature'
sidmarkam@LAPTOP-A34K717R:~/exam_project$ echo "Name: Siddharth Singh Markam" > info.txt
sidmarkam@LAPTOP-A34K717R:~/exam_project$ echo "REG. No: GF202218839" >> info.txt
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git add info.txt
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git commit -m "Added student info"
[feature dc356b8] Added student info
 1 file changed, 2 insertions(+)
 create mode 100644 info.txt
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git checkout main
Switched to branch 'main'
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git merge feature
Updating 087d6f0..dc356b8
Fast-forward
 info.txt | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 info.txt
```



```
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git pull origin main
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 1.00 KiB | 256.00 KiB/s, done.
From github.com:SiddharthSinghMarkam/exam_project
 * branch            main       -> FETCH_HEAD
   dc356b8..2b9908c  main       -> origin/main
Updating dc356b8..2b9908c
Fast-forward
 readme.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 readme.md
sidmarkam@LAPTOP-A34K717R:~/exam_project$ git log --oneline --graph --all
* 2b9908c (HEAD -> main, origin/main) Create readme.md
* dc356b8 (feature) Added student info
* 087d6f0 Initial commit with app.js
```

```
ubuntu@ip-172-31-45-67:~$ ssh -i my-key-pair.pem ubuntu@ec2-54-123-45-67.compute-1.amazonaws.com
Connecting to AWS y-key-pair.countus...
You cam vocated or entre to compute--1.amazonaws.com.
Welcome to Ubuntu ubuntu@ec2-54-123-45-67.compute-1, x86_64
ubuntu@ip-172-31-45-67:~$ sudo apt-get update
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu cmdelease [152.1]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu release release [1203 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu release package release [173 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu mopot version rusent [1.215]
Raining 2012 site heats... Done
Raining moot servicers... Done
ubuntu@ip-172-31-45-67:~$ sudo apt-get install git -y
Reading eneronnistains 15 packages ininstalled.
Unpacking git package ...(git-ubuntu-1123.251_2cmpa8.thd7) ...
Setting up git (git 0.0_11-sb18) ...
Setting up git (git (23.0-0.4-sb18) ...
ubuntu@ip-172-31-45-67:~$ git --version
git version 2.25.1
ubuntu@ip-172-31-45-67:~$ git clone https://github.com/SiddharthSinghMarkam/exam_project.git
Cloning into 'exam_project'...
remote: Enumerating objects: 15, done.
remote: Total 15 (delta 2), reused 15 (delta 2), pack-reused 0
Unpacking objects: 100% (15/15), 4.12 KiB | 4.12 MiB/s, done.
ubuntu@ip-172-31-45-67:~$ ls -l
drwxr-xr-x 2 no ubuntu staff 40608 anls 2010 exam_project
ubuntu@ip-172-31-45-67:~$
```

```
ubuntu@ip-172-31-45-67:~/exam_project$ sudo apt update
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu cmdelease [152.1]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu release release [1203 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu release package release [173 kB]
ubuntu@ip-172-31-45-67:~/exam_project$ sudo apt install docker.io -y
Instaling 120 packages ... Done
Instaling package packages... Done
ubuntu@ip-172-31-45-67:~/exam_project$ cat <<EOF > Dockerfile
FROM ubuntu:latest
RUN apt-get update && apt-get install -y nodejs
WORKDIR /app
COPY . .
CMD ["node", "app.js"]
nEOF
ubuntu@ip-172-31-45-67:~/exam_project$ sudo docker build -t exam-image .
Step 1/5 : FROM ubuntu:latest
 ---> Buildin 560201e19
Step 2/5 : RUN apt-get update && apt-get install -y nodejs
 ---> RUN WORKDIR /app
 ---> CMD [57005020147]
Successfully built exam-image.f7e5c60024
ubuntu@ip-172-31-45-67:~/exam_project$ sudo docker run -d -p 3000:3000 exam-image
exantd1ba0360e19a59e845e2521ed26ca2e7838a55a65583ae
ubuntu@ip-172-31-45-67:~/exam_project$ sudo docker ps
CONTAINER ID   IMAGE       COMMAND      CREATED        STATUS      PORTS
afa0b07ba3d2a  exam-image  "cv2-image"  1 months ago   0 unonutes  0.0.0.0:3000->3000/tcp
    UMER                                                           NAMES
ubuntu@ip-172-31-45-67:~/exam_project$
```