EXPERIMENT NO. 1

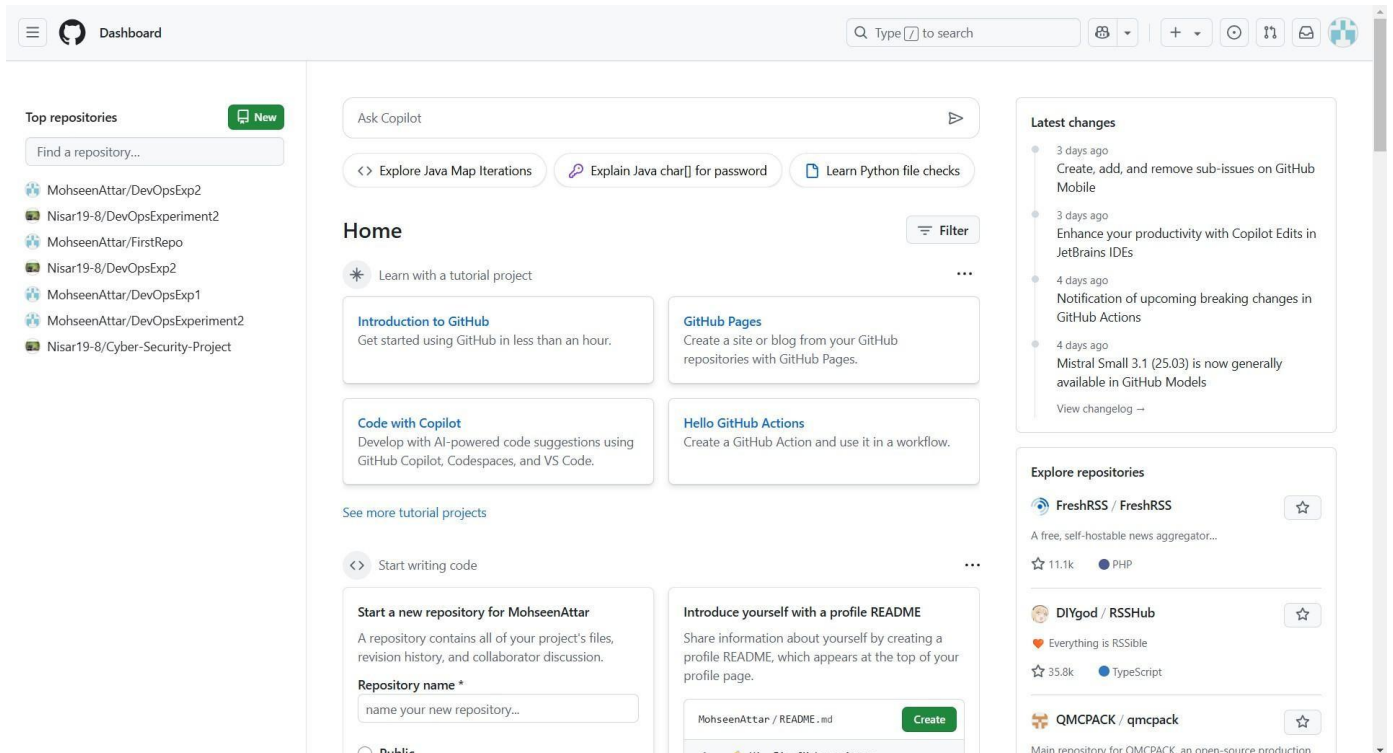**create github repository**

cd [directory name]
git clone [path of repository]

```
dyp@dyp-OptiPlex-3000:~$ cd MyProject
dyp@dyp-OptiPlex-3000:~/MyProject$ git clone https://github.com/MohseenAttar/DevOpsExp1
Cloning into 'DevOpsExp1'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 858 bytes | 858.00 KiB/s, done.
```

ls
cd [repository name]
cat README.md
git status

```
dyp@dyp-OptiPlex-3000:~/MyProject$ ls
DevOpsExp1  DevOpsExp2  FirstRepo
dyp@dyp-OptiPlex-3000:~/MyProject$ cd DevOpsExp1
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ cat README.md
# DevOpsExp1dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git init
Reinitialized existing Git repository in /home/dyp/MyProject/DevOpsExp1/.git/
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

touch [file name]

gedit [file name]

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ touch Table.java
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ gedit Table.java
```



```java
import java.util.Scanner;

class Table {
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a number ; ");
        int n = sc.nextInt();

        for (int i = 1; i <= 10; i++) {
            System.out.println(n + " * " + i + " = " + n * i);
        }
    }
}
```

git status

git add Table.java

git status

git commit -m " "

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Table.java

nothing added to commit but untracked files present (use "git add" to track)
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git add Table.java
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Table.java

dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git commit -m "To calculate table of any number"
[main f5d88e7] To calculate table of any number
 1 file changed, 15 insertions(+)
 create mode 100644 Table.java
```
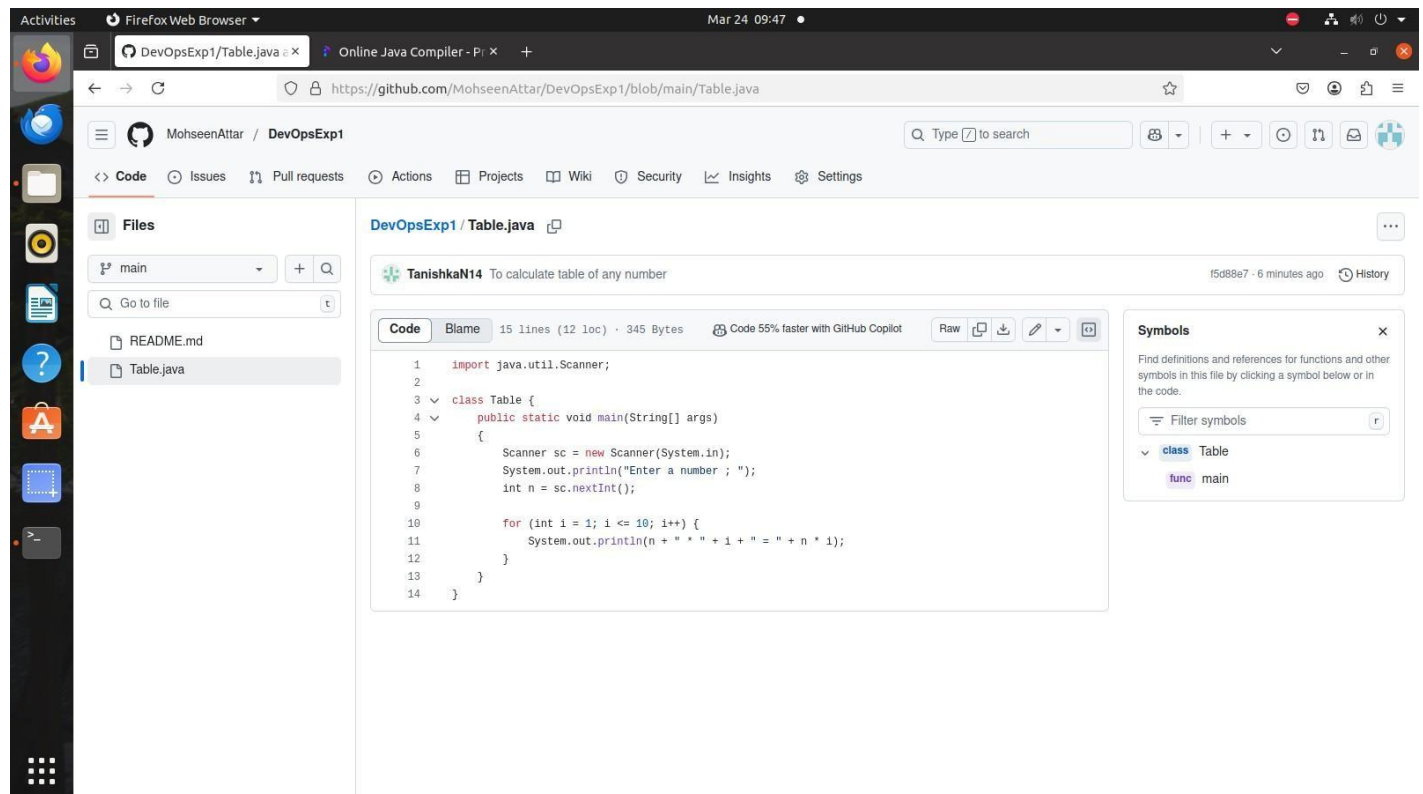
git remote set-url origin https://[address of token][@path of repository]
git push origin main

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git remote set-url origin https://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@github.com/MohseenAttar/DevOpsExp1
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 495 bytes | 495.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/MohseenAttar/DevOpsExp1
   88b20c3..f5d88e7  main -> main
```


git branch
git branch [new branch name]
git status
git add .
git commit -m " "
git push origin main
git branch
git checkout branch
git branch
git add .
git commit -m " "
git push origin [new branch name]

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch
* main
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch subBranch
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch
* main
  subBranch
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git add .
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git commit -m "created new branch"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git push origin main
Everything up-to-date
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch
* main
  subBranch
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git checkout subBranch
Switched to branch 'subBranch'
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch
  main
* subBranch
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git add .
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git commit -m "add branch"
On branch subBranch
nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git push origin subBranch
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'subBranch' on GitHub by visiting:
remote:      https://github.com/MohseenAttar/DevOpsExp1/pull/new/subBranch
remote:
To https://github.com/MohseenAttar/DevOpsExp1
 * [new branch]      subBranch -> subBranch
```
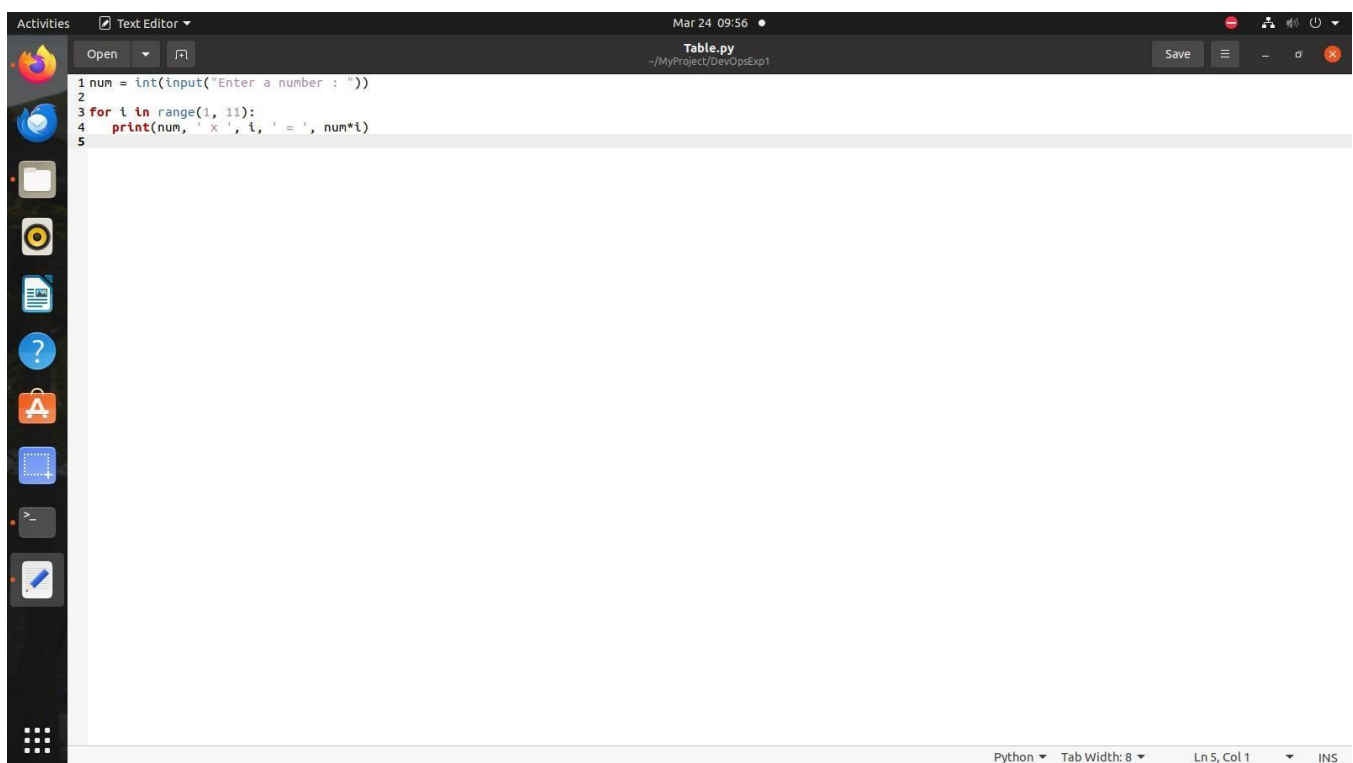
touch Table.py

gedit Table.py

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ touch Table.py
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ gedit Table.py
```



```python
1 num = int(input("Enter a number : "))
2
3 for i in range(1, 11):
4     print(num, ' x ', i, ' = ', num*i)
5
```

git status

git add Table.py

git status

git commit -m " "

git push origin [new branch name]

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch subBranch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Table.py

nothing added to commit but untracked files present (use "git add" to track)
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git add Table.py
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch subBranch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Table.py

dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git commit -m "Python code added"
[subBranch 4b68db0] Python code added
 1 file changed, 5 insertions(+)
 create mode 100644 Table.py
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git push origin subBranch
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 398 bytes | 398.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/MohseenAttar/DevOpsExp1
   f5d88e7..4b68db0  subBranch -> subBranch
```

git status

git checkout -b [new branch name]

git status

git checkout main

git branch

git branch -D [new branch name]

```
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch subBranch
nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git checkout -b subBranch
fatal: A branch named 'subBranch' already exists.
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git status
On branch subBranch
nothing to commit, working tree clean
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch -D subBranch
error: Cannot delete branch 'subBranch' checked out at '/home/dyp/MyProject/DevOpsExp1'
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch
* main
  subBranch
dyp@dyp-OptiPlex-3000:~/MyProject/DevOpsExp1$ git branch -D subBranch
Deleted branch subBranch (was 4b68db0).
```