

# ■ GitHub SSH Key Setup Guide (Windows)

## 1■■ SSH Key Generate Karna (Git Bash ke andar):

Command:

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

■ Ye command ek RSA encryption key (4096-bit) banata hai.

■ "your\_email@example.com" — isme apna GitHub email daalna hai.

Phir jab terminal puche:

Enter file in which to save the key → Bas Enter daba dena (default rakho).

Enter passphrase → Enter do baar daba dena (agar password nahi chahiye).

■ Private key: ~/.ssh/id\_rsa

■ Public key: ~/.ssh/id\_rsa.pub

## 2■■ Windows PowerShell ko Administrator Mode me kholna:

Ab ssh-agent start karna hai — ye ek background service hai jo SSH keys manage karti hai.

Commands:

```
Get-Service -Name ssh-agent | Set-Service -StartupType Manual
```

```
Start-Service ssh-agent
```

■ Pehla command agent ko manual mode pe set karta hai.

■ Doosra command us agent ko start karta hai.

## 3■■ Apni Key ko Agent me Add Karna:

Command:

```
ssh-add $env:USERPROFILE\.ssh\id_rsa
```

Agar ye sahi add ho gayi to output me milega:

```
Identity added: C:\Users\YourName\.ssh\id_rsa (your_email@example.com)
```

Check karne ke liye:

```
ssh-add -l
```

Agar ye kuch aisa dikhayee:

```
2048 SHA256:xyz.... your_email@example.com (RSA)
```

to matlab sab sahi hai ■

## 4■■ Public Key ko GitHub me Add Karna:

Command:

```
type $env:USERPROFILE\.ssh\id_rsa.pub
```

■ Poora key copy karo (ssh-rsa se start hoti hai).

■ GitHub → Settings → SSH and GPG keys → New SSH key

■ Title: My Laptop SSH Key

■ Key field me paste karo → Add SSH key par click karo.

## **5■■ Test Karne ke Liye:**

Command:

```
ssh -T git@github.com
```

Agar sab sahi setup hua to output milega:

Hi ! You've successfully authenticated, but GitHub does not provide shell access.

■ Matlab SSH connection successful hai!

■ Ab tu Git push/pull bina password ke kar sakta hai!