Github account and SSH key (**for everybody**)

1. Open a github account if you don't have it already. (You can use your sabanci usernames if you are opening a new account, if you already have a github account that's also fine.)
2. Fill out this form, so we can match your github accounts with sabanci accounts.

Adding SSH key to github account

Windows users, for the following part "terminal" means ubuntu terminal (please **DO NOT** use PowerShell or Windows Command Prompt)

1. Open terminal
2. Paste the command below, substituting in your GitHub email address.
   ssh-keygen -t ed25519 -C "your_email@example.com"

   Note: If you are using a legacy system that doesn't support the Ed25519 algorithm, use:
   ssh-keygen -t rsa -b 4096 -C "your_email@example.com"

   This creates a new SSH key, using the provided email as a label.
   > Generating public/private algorithm key pair.

3. When you're prompted to "Enter a file in which to save the key," press Enter. This accepts the default file location.
   > Enter a file in which to save the key (/home/umit/.ssh/id_ed25519):[Press enter]

4. At the prompt, type a secure passphrase. (Also **DO NOT FORGET** this)
   > Enter passphrase (empty for no passphrase): [Type a passphrase]
   > Enter same passphrase again: [Type passphrase again]

5. Set up the necessary environment using command:

   eval `ssh-agent -s`

6. Add your SSH private key to the ssh-agent.
   ssh-add ~/.ssh/id_ed25519
   This is the **file from step 3**, if you changed that change file location here accordingly.
   This command will ask for a passphrase, it is the **passphrase you typed at step 4**.

7. Open the SSH public key you just created, and copy it
   ~/.ssh/id_ed25519.pub
   You can find this file at the location you decided at **step 3.**

8. Open github from the web browser and login.
   a. In the upper-right corner of any page, click your profile photo, then click **Settings**.
   b. In the "Access" section of the sidebar, click **SSH and GPG keys**.
   c. Click **New SSH key** or **Add SSH key**.
   d. In the "Title" field, add a descriptive label for the new key.

e. Select the type of key as **authentication**.
f. Paste your key (SSH public key you copied at **step 6**) into the "Key" field.
g. Click Add SSH key.

9. Testing your ssh connection to github
    a. Open terminal
    b. Enter the following
    ssh -T git@github.com
    > *Attempts to ssh to GitHub*

    You may see a warning like this:
    > The authenticity of host 'github.com (IP ADDRESS)' can't be established.
    > RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
    > Are you sure you want to continue connecting (yes/no)?

    Type “yes” and press Enter

    c. If you see a similar response to the following, you have successfully set SSH with github.
    > *Hi username! You've successfully authenticated, but GitHub does not*
    > *provide shell access.*