### What is Github Actions?

- Its a CI/CD Platform built into Github.
- It lets us to automate workflows like building, testing and deploying the code when events occur in the github repo (eg: push, PR, issue, etc.)

# Why Github Actions?

- No external CI tool needed
- Automate on push, pull request, release, etc.
- Supports any language (python, node, java, Docker, etc.)
- Run Parallel Jobs
- Save Test Report, Build Output
- Marketplace 12000+ Prebuilt actions (eg: test, build, lint)

# **Key Component**

#### Workflow

- A Complete automation pipeline
- defined in .github/workflows/\*.yml

#### Job

Individual Task run on VM (Eg: build, test, deploy, etc)

### Step

- Commands that Run inside a Job
- Can be shell commands or resuable actions

#### Actions

 A packaged, reusable unit of work (from marketplace/ custom)