



GIT-JENKINS WEBHOOKS

Demonstration By: Madhusudhan Sridhar

GIT INIT

```
MINGW64:/f/Jenkins
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$
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$
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .Hungry.py.swp
        .idea/

nothing added to commit but untracked files present (use "git add" to track)
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git init
Reinitialized existing Git repository in F:/Jenkins/.git/
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```

GIT STATUS

```
MINGW64:/f/Jenkins

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$

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$ git status
On branch master
Your branch is up to date with 'origin/master'.

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        .Hungry.py.swp
        .idea/

nothing added to commit but untracked files present (use "git add" to track)

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```

1.1

GIT BRANCH

AND

SWITCHING TO

BRANCH

```
MINGW64:/f/Jenkins
1 file changed, 1 insertion(+), 1 deletion(-)

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 353 bytes | 176.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/pvsmadhusudhan/Jenkins.git
ef4af0f..d11f892 master -> master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git branch develop

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git branch
  develop
* master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```

```
MINGW64:/f/Jenkins
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 353 bytes | 176.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/pvsmadhusudhan/Jenkins.git
ef4af0f..d11f892 master -> master

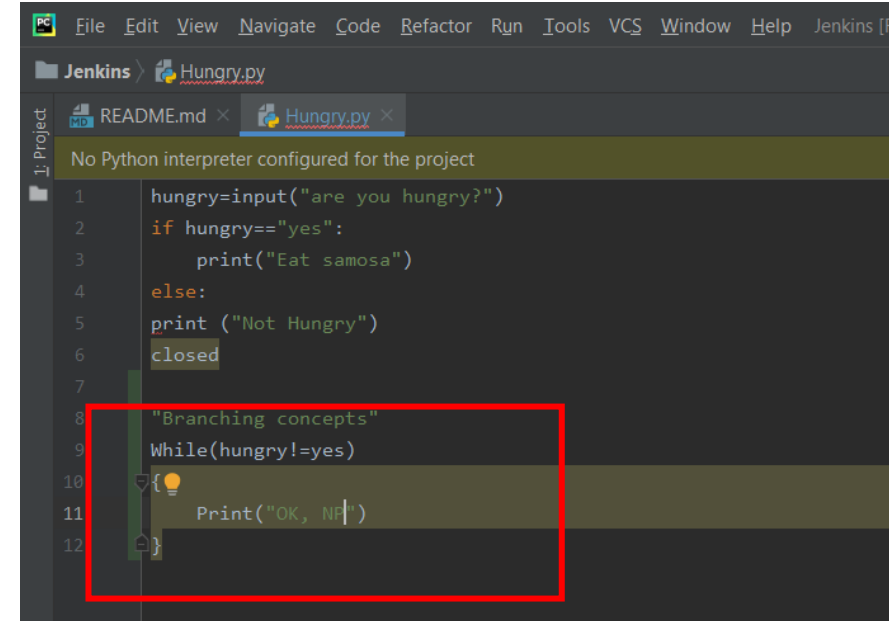
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git branch develop

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git branch
  develop
* master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git checkout develop
Switched to branch 'develop'

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (develop)
$ |
```

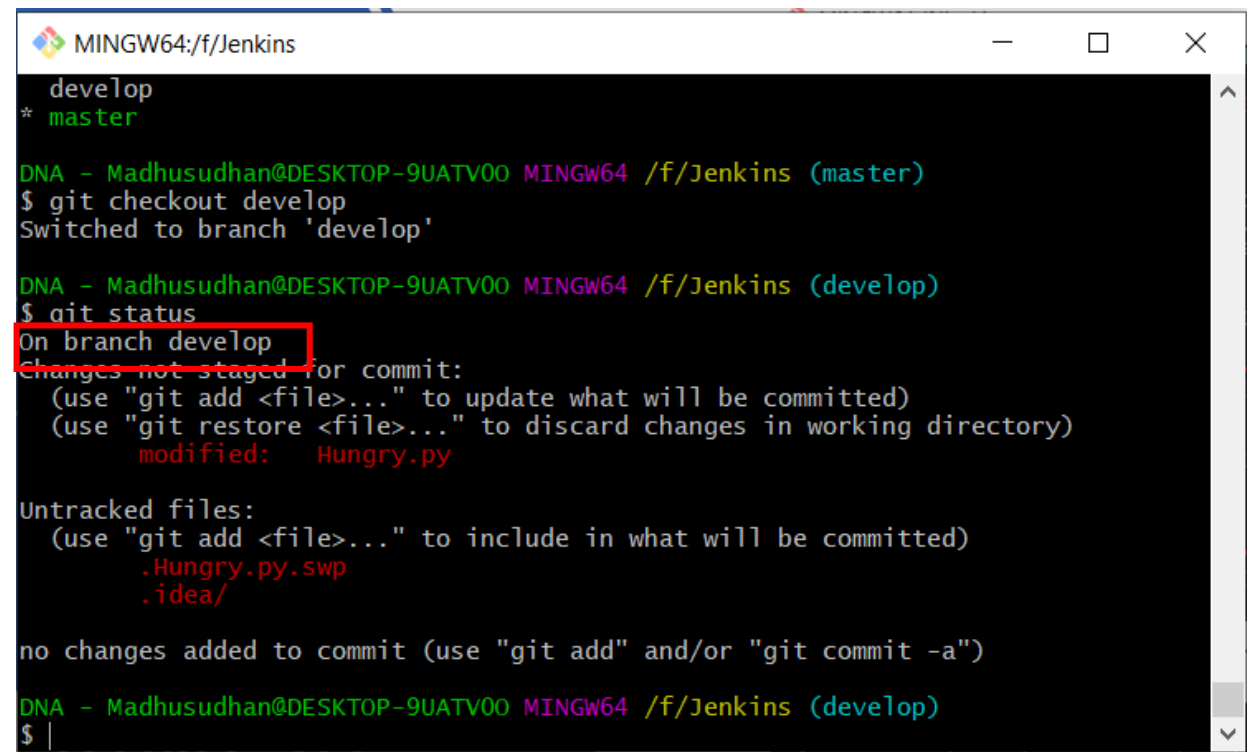
1.2 BRANCHING CODE AND STATUS



The screenshot shows an IDE window titled 'Jenkins' with a file named 'Hungry.py'. The code is as follows:

```
1 hungry=input("are you hungry?")
2 if hungry=="yes":
3     print("Eat samosa")
4 else:
5     print ("Not Hungry")
6     closed
7
8 "Branching concepts"
9 While(hungry!=yes)
10 {
11     Print("OK, NF")
12 }
```

A red rectangular box highlights the code block starting from line 9, containing the while loop and its body.



The screenshot shows a terminal window titled 'MINGW64:/f/Jenkins'. The output of the commands is as follows:

```
develop
* master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git checkout develop
Switched to branch 'develop'

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (develop)
$ git status
On branch develop
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   Hungry.py

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .Hungry.py.swp
    .idea/

no changes added to commit (use "git add" and/or "git commit -a")

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (develop)
$ |
```

A red rectangular box highlights the text 'On branch develop' in the output of the 'git status' command.

1.3

GIT LOG

```
MINGW64:/f/Jenkins
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git log
commit d11f89290c2a797d078621a40e871bfb06789ef1 (HEAD -> master, origin/master,
origin/HEAD, develop)
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Fri Apr 24 10:58:01 2020 +0530

    Second push

commit ef4af0f847d855c8a6d1efe352d5867b2fdebab9
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Fri Apr 24 10:45:13 2020 +0530

    Functions parameter added

commit 0a7c6a7fb642b8c5794af9140f1af013554b4b25
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Thu Apr 23 13:30:18 2020 +0530

    yep build

commit ac854487e17b94bcad6d33f76da7ef46b17b52ac
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Thu Apr 23 11:12:03 2020 +0530
```

1.4

GIT MERGE

```
MINGW64:/f/Jenkins
Create README.md

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git merge develop
Already up to date.

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git branch
  develop
* master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git log
commit d11f89290c2a797d078621a40e871bfb06789ef1 (HEAD -> master, origin/master,
origin/HEAD, develop)
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Fri Apr 24 10:58:01 2020 +0530

Second push
```

15

GIT LOG SHOW

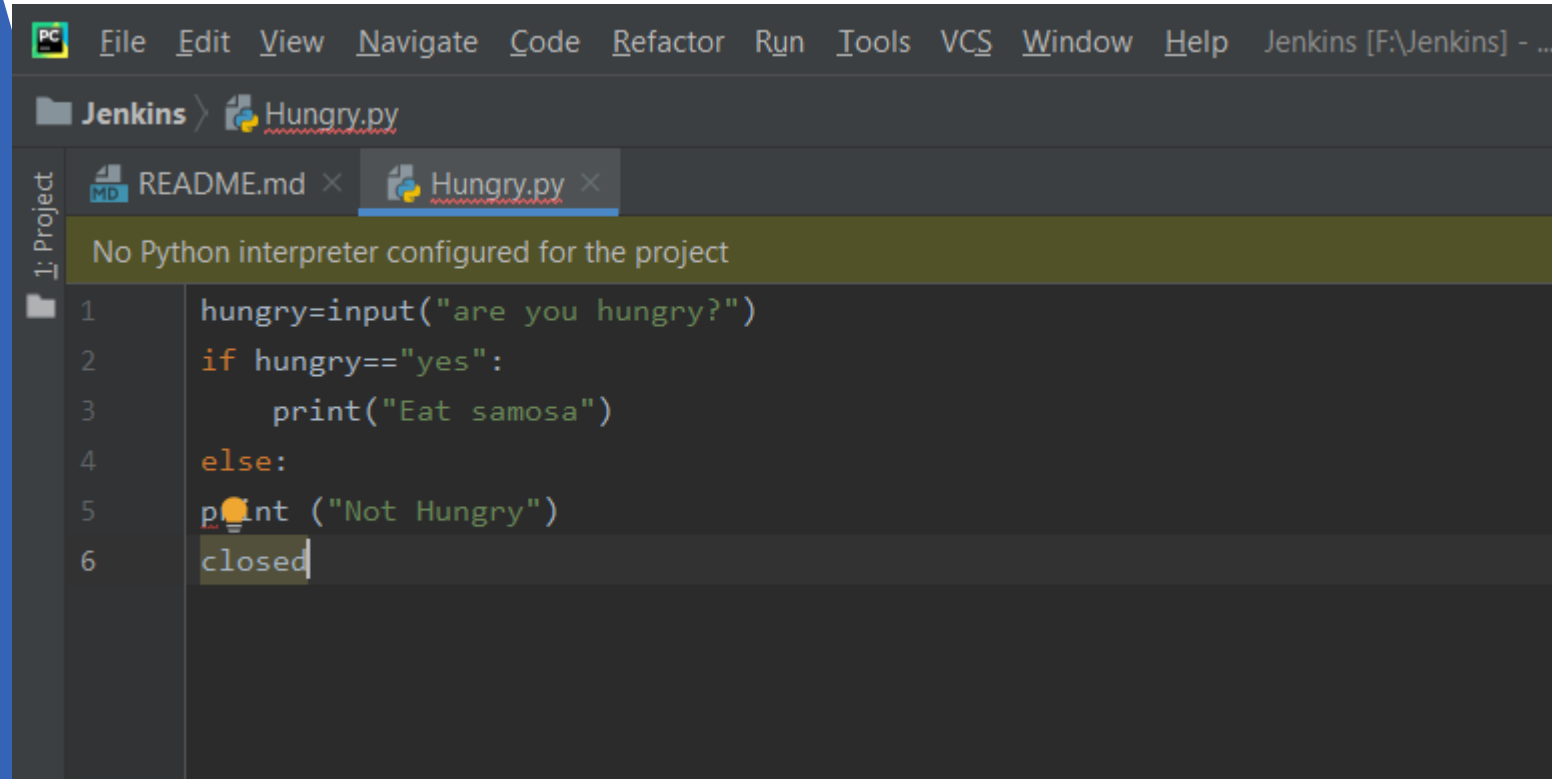
```
MINGW64:/f/Jenkins
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git show ef4af
commit ef4af0f847d855c8a6d1efe352d5867b2fdebab9
Author: pvsmadhusudhan <56104337+pvsmadhusudhan@users.noreply.github.com>
Date:   Fri Apr 24 10:45:13 2020 +0530

    Functions parameter added

diff --git a/Hungry.py b/Hungry.py
index a64d015..550cbe1 100644
--- a/Hungry.py
+++ b/Hungry.py
@@ -3,4 +3,4 @@ if hungry=="yes":
     print("Eat samosa")
 else:
     print ("Not Hungry")
-closeS
\ No newline at end of file
+close
\ No newline at end of file

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```


SAMPLE CODE



The screenshot shows an IDE window titled "Jenkins" with a file named "Hungry.py" open. The file explorer on the left shows a project named "1: Project" containing "README.md" and "Hungry.py". The code editor displays the following Python code:

```
1 hungry=input("are you hungry?")
2 if hungry=="yes":
3     print("Eat samosa")
4 else:
5     print ("Not Hungry")
6 closed
```

A message bar at the top of the editor indicates: "No Python interpreter configured for the project". The code has a syntax error on line 6, where "closed" is written instead of "input".

GIT STATUS & ADD

```
MINGW64:/f/Jenkins
Reinitialized existing Git repository in F:/Jenkins/.git/
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Hungry.py

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .Hungry.py.swp
        .idea/

no changes added to commit (use "git add" and/or "git commit -a")
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git add Hungry.py
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```

GIT DIFF

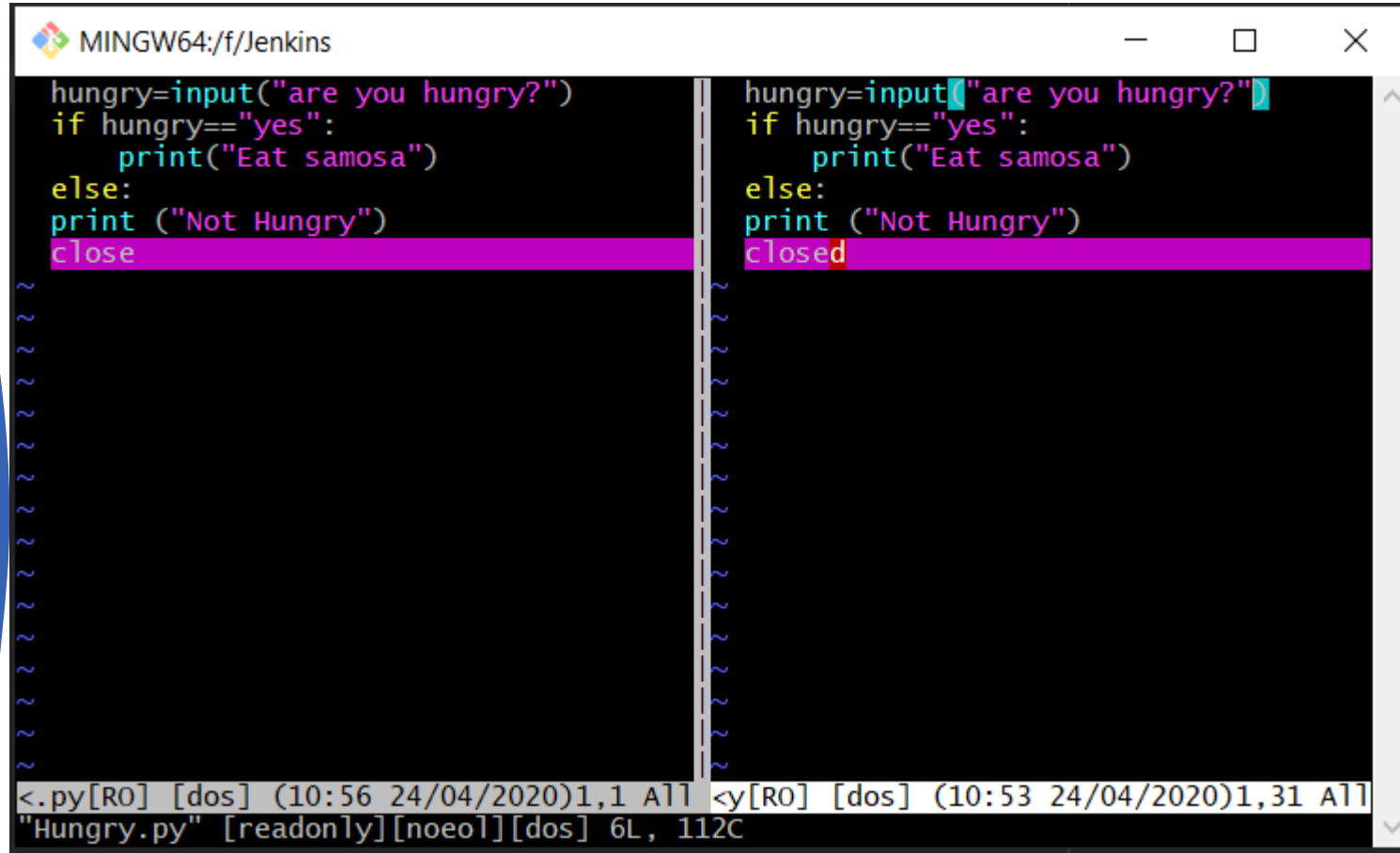
```
MINGW64:/f/Jenkins
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .Hungry.py.swp
        .idea/

no changes added to commit (use "git add" and/or "git commit -a")

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ git diff
diff --git a/Hungry.py b/Hungry.py
index 550cbe1..deaae9e 100644
--- a/Hungry.py
+++ b/Hungry.py
@@ -3,4 +3,4 @@ if hungry=="yes":
     print("Eat samosa")
 else:
     print ("Not Hungry")
-close
\ No newline at end of file
+closed
\ No newline at end of file

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ |
```

GIT DIFF TOOL



The screenshot shows a MINGW64 terminal window with a diff tool interface. The window title is "MINGW64:/f/Jenkins". The diff compares two versions of a Python script. The left pane shows the original file, and the right pane shows the modified file. The changes are highlighted in magenta. The status bar at the bottom shows the file path and the diff details.

```
hungry=input("are you hungry?")
if hungry=="yes":
    print("Eat samosa")
else:
    print ("Not Hungry")
close
```

```
hungry=input("are you hungry?")
if hungry=="yes":
    print("Eat samosa")
else:
    print ("Not Hungry")
closed
```

<.py[RO] [dos] (10:56 24/04/2020)1,1 A11 <y[RO] [dos] (10:53 24/04/2020)1,31 A11
"Hungry.py" [readonly][noel][dos] 6L, 112C

GIT COMMIT WITH COMMENTS

MINGW64:/f/Jenkins

```
$ git add Hungry.py
```

```
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
```

```
$ git status
```

```
On branch master
```

```
Your branch is up to date with 'origin/master'.
```

```
Changes to be committed:
```

```
(use "git restore --staged <file>..." to unstage)
```

```
modified:   Hungry.py
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
.Hungry.py.swp
```

```
.idea/
```

```
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
```

```
$ git commit -m "Functions parameter added"
```

```
[master ef4af0f] Functions parameter added
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
```

```
$ |
```

PWD/GIT/WEB HOOKS

```
MINGW64:/f/Jenkins/.git
$ git .git
git: '.git' is not a git command. See 'git --help'.

The most similar command is
    init

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ .git
bash: .git: command not found

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ pwd
/f/Jenkins

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ cd .git

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins/.git (GIT_DIR!)
$ ls
COMMIT_EDITMSG  description  hooks/  info/  objects/  refs/
config          HEAD        index   logs/  packed-refs

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins/.git (GIT_DIR!)
$ |
```

GIT PUSH


```
MINGW64:/f/Jenkins/.git
/f/Jenkins
DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins (master)
$ cd .git

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins/.git (GIT_DIR!)
$ ls
COMMIT_EDITMSG  description  hooks/      info/       objects/    refs/
config          HEAD        index       logs/      packed-refs

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins/.git (GIT_DIR!)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 362 bytes | 120.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/pvsmadhusudhan/Jenkins.git
   0a7c6a7..ef4af0f  master -> master

DNA - Madhusudhan@DESKTOP-9UATV00 MINGW64 /f/Jenkins/.git (GIT_DIR!)
$ |
```


JENKINS TRIGGER TO BUILD


 **Jenkins**


search ?


monitor 1 Madhusudhan log out


Jenkins > 2020 Build > enable auto refresh


 Back to Dashboard


 **Status**


 Changes


 Workspace


 Build Now

 Delete Project

 Configure


 GitHub Hook Log

 Git Polling Log


 Rename


Project 2020 Build

Testing

 [edit description](#)

Disable Project

 [Workspace](#)



 [Recent Changes](#)



Permalinks

- [Last build \(#4\), 12 min ago](#)
- [Last stable build \(#4\), 12 min ago](#)
- [Last successful build \(#4\), 12 min ago](#)
- [Last completed build \(#4\), 12 min ago](#)

Build History trend


find x

#5	Apr 24, 2020 10:59 AM		
#4	Apr 24, 2020 10:46 AM		
#3	Apr 23, 2020 1:31 PM		
#2	Apr 23, 2020 1:30 PM		
#1	Apr 23, 2020 11:21 AM		

 [Atom feed for all](#)  [Atom feed for failures](#)

Page generated: Apr 24, 2020 10:58:34 AM IST REST API Jenkins ver. 2.222.1


JENKINS BUILD STATUS


 **Jenkins**


search ?


monitor 1 Madhus


Jenkins > 2020 Build > #5


 Back to Project


 Status


 Changes


 **Console Output**


 View as plain text


 Edit Build Information


 Delete build '#5'

 Polling Log

 Git Build Data

 No Tags

 Previous Build

 **Console Output**

Started by an SCM change
Running as SYSTEM
Building in workspace C:\Program Files (x86)\Jenkins\workspace\2020 Build
No credentials specified

```
> C:\Program Files\Git\bin\git.exe rev-parse --is-inside-work-tree # timeout=10  
Fetching changes from the remote Git repository  
> C:\Program Files\Git\bin\git.exe config remote.origin.url file:///f/Jenkins/.git # timeout=10  
Fetching upstream changes from file:///f/Jenkins/.git  
> C:\Program Files\Git\bin\git.exe --version # timeout=10  
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- file:///f/Jenkins/.git +refs/heads/*:refs/remotes/origin/*  
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10  
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10  
Checking out Revision d11f89290c2a797d078621a40e871bfb06789ef1 (refs/remotes/origin/master)  
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10  
> C:\Program Files\Git\bin\git.exe checkout -f d11f89290c2a797d078621a40e871bfb06789ef1  
Commit message: "Second push"  
> C:\Program Files\Git\bin\git.exe rev-list --no-walk ef4af0f847d855c8a6d1efe352d5867b2fdebab9 # timeout=10
```

Finished: SUCCESS