Global-tech incorporation is leading Biotech & Medical distribution company, has decided to deploy all the data to remote repository and Automate the data as per the requirement.

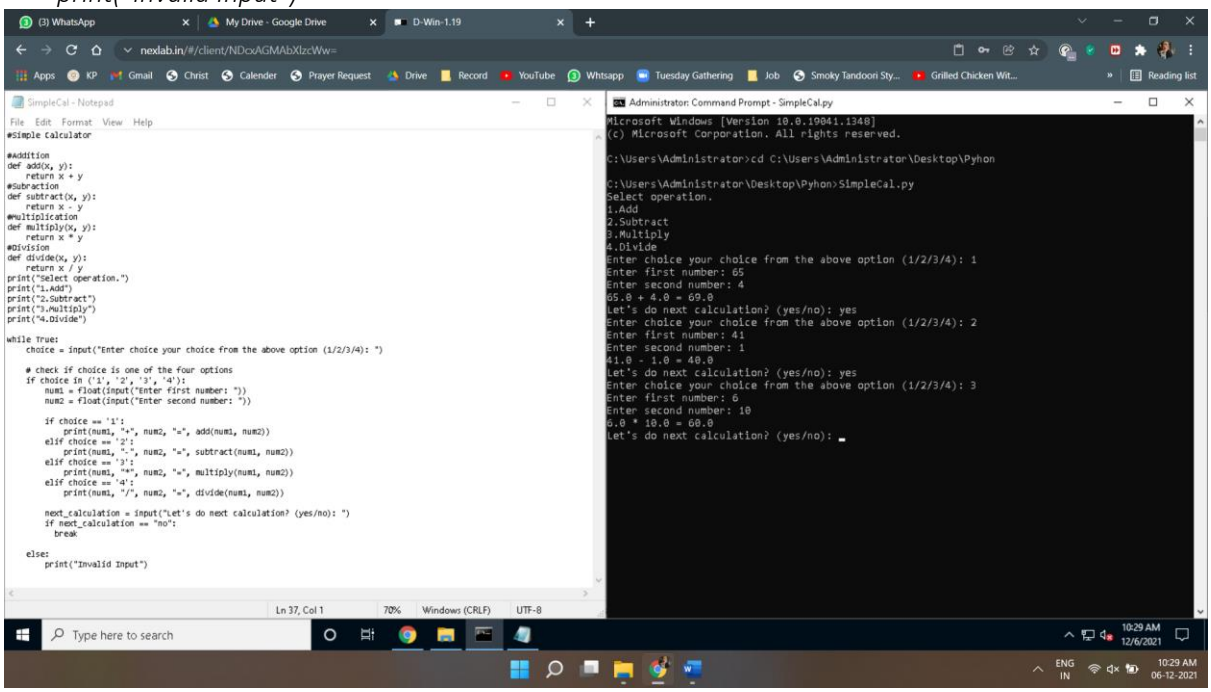
1.Write the python program of Simple calculator and run python scripting as well and attach the screenshots

Google Colab link

https://colab.research.google.com/drive/1VAMYSOnABfWfUgvZ4pZ_dg6EBp7vnG7E?usp=sharing

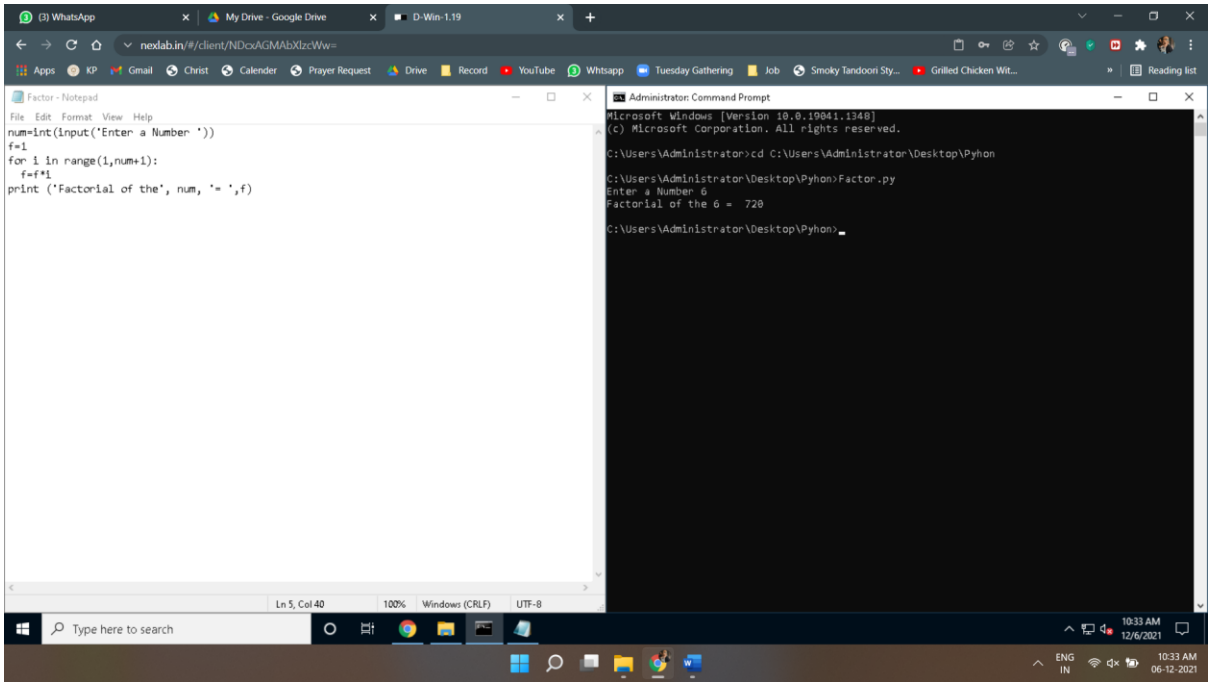
```
#Simple Calculator
#Addition
def add(x, y):
   return x + y
#Subraction
def subtract(x, y):
   return x - y
#Multiplication
def multiply(x, y):
   return x * y
#Division
def divide(x, y):
   return x / y
print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")

while True:
   choice = input("Enter choice your choice from the above option (1/2/3/4): ")

   # check if choice is one of the four options
   if choice in ('1', '2', '3', '4'):
      num1 = float(input("Enter first number: "))
      num2 = float(input("Enter second number: "))

      if choice == '1':
         print(num1, "+", num2, "=", add(num1, num2))
      elif choice == '2':
         print(num1, "-", num2, "=", subtract(num1, num2))
      elif choice == '3':
         print(num1, "*", num2, "=", multiply(num1, num2))
      elif choice == '4':
         print(num1, "/", num2, "=", divide(num1, num2))
```

```
    next_calculation = input("Let's do next calculation? (yes/no): ")
    if next_calculation == "no":
      break

else:
    print("Invalid Input")
```



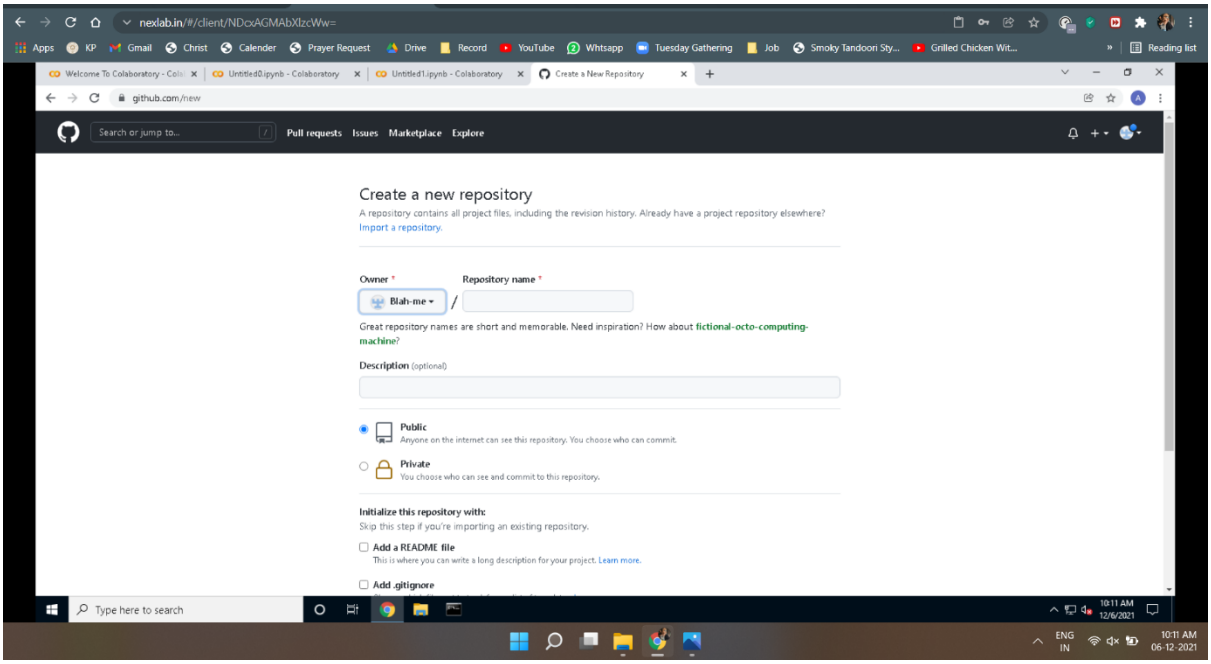
2.Write a python program to find factorial of a number and do the scripting with screenshots

```
num=int(input('Enter a Number '))

f=1

for i in range(1,num+1):

  f=f*i

print ('Factorial of the', num, '= ',f)
```

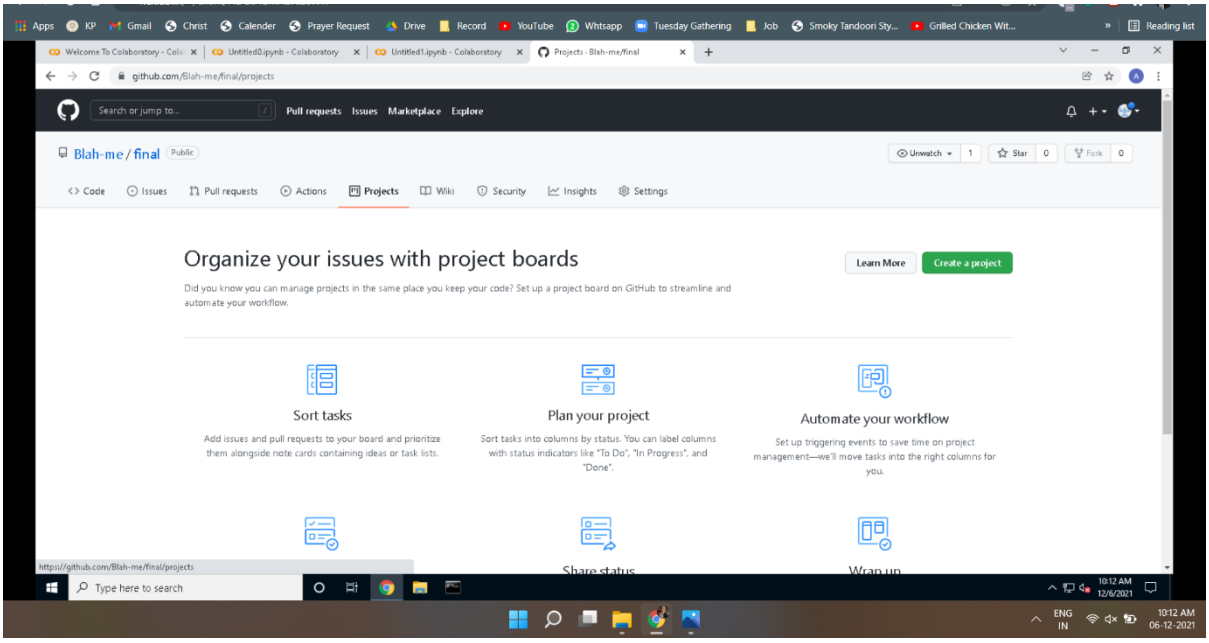


3. Create a repository , Create New Project and create columns and explain how it will work with screenshots

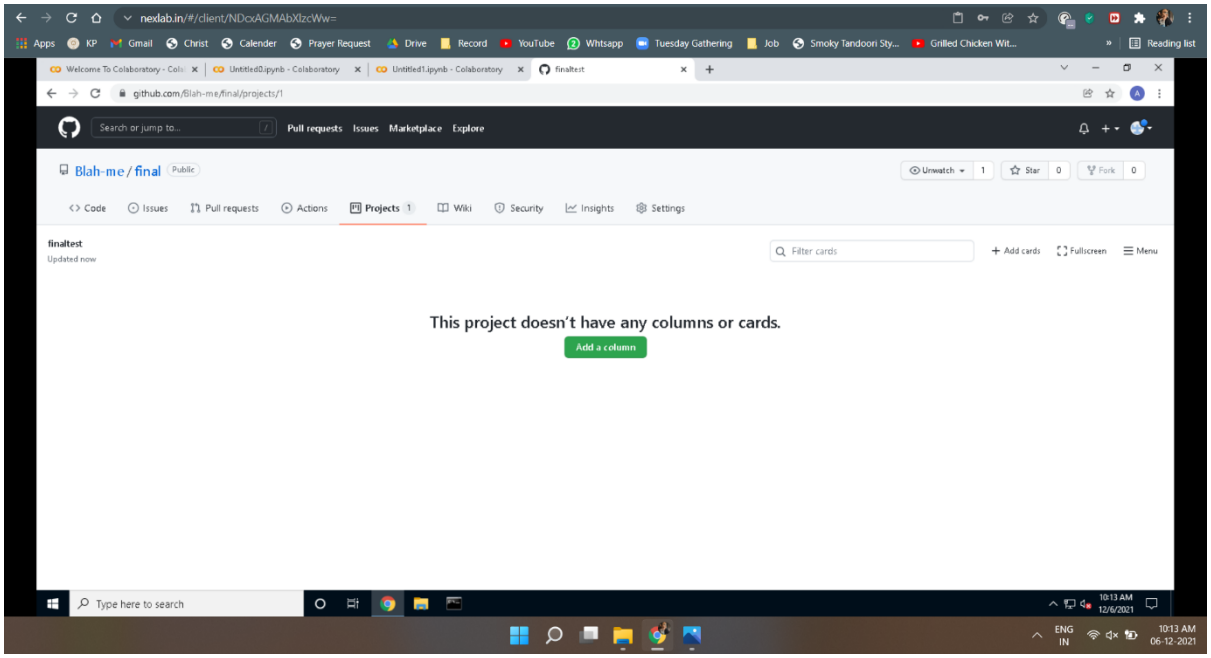
- login in or create a github account
- Create a new repository, give a unique name and select the required settings and click create

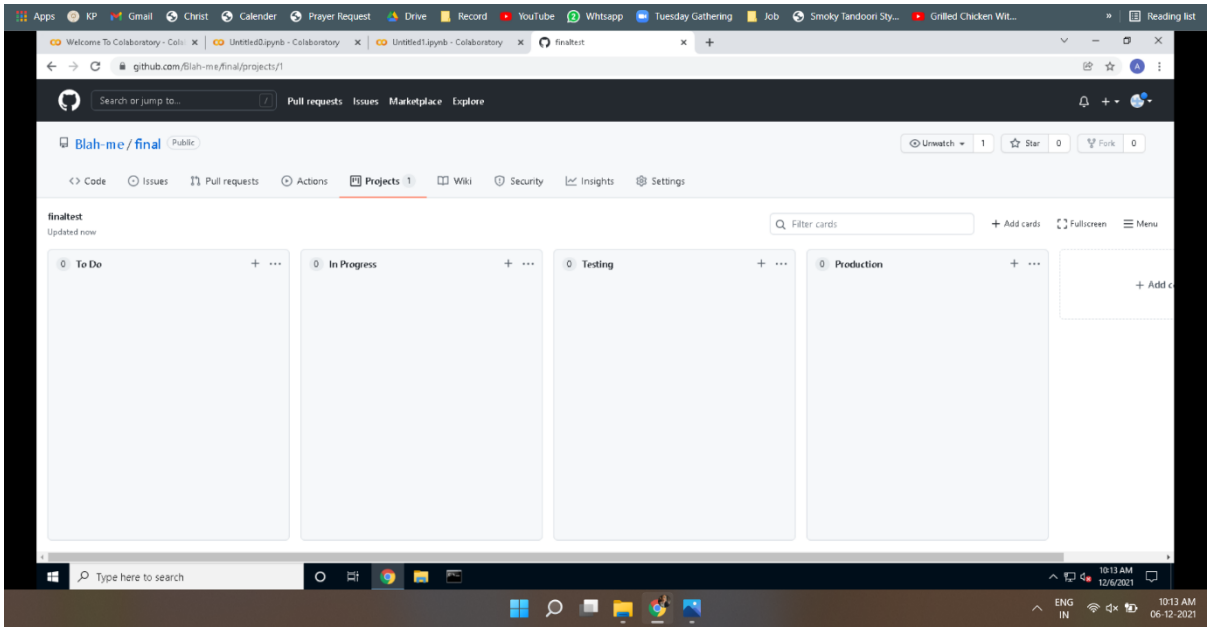


- 3. Once a repositor is created click on create a new project and give a name



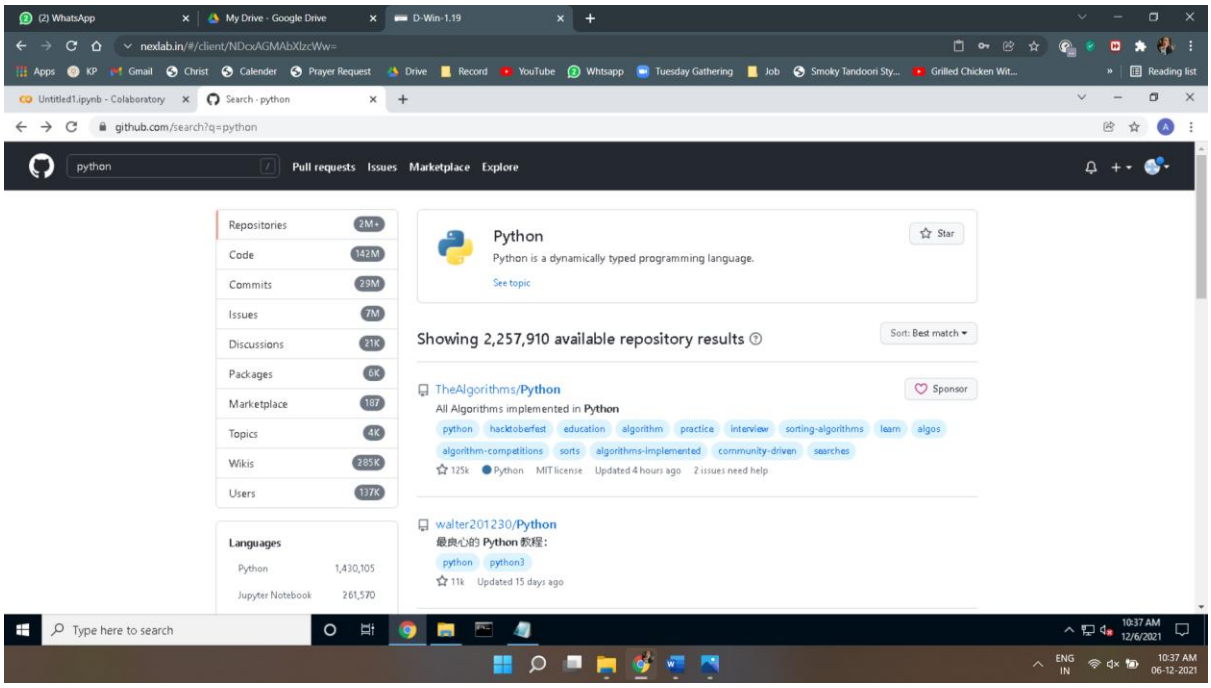
- Create columns according to the need.


nexlab.in/#/client/NDcxAGMAbXIzcWw=
github.com/Blah-me/final/projects/1
Search or jump to...
Pull requests
Issues
Marketplace
Explore
Blah-me / final
Public
Unwatch 1
Star 0
Fork 0
Code
Issues
Pull requests
Actions
Projects 1
Wiki
Security
Insights
Settings
finaltest
Updated now
Filter cards
Add cards
Fullscreen
Menu
This project doesn't have any columns or cards.
Add a column
Type here to search
10:13 AM
12/6/2021
ENG
IN
10:13 AM
06-12-2021

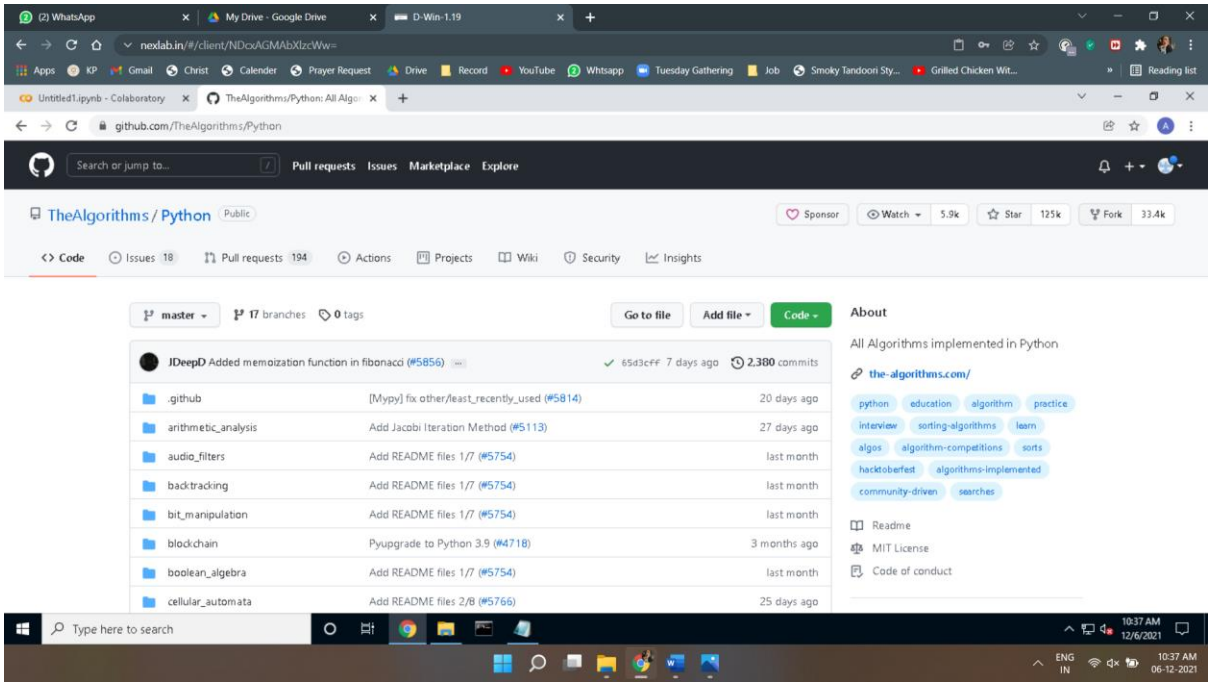

github.com/Blah-me/final/projects/1
Search or jump to...
Pull requests
Issues
Marketplace
Explore
Blah-me / final
Public
Unwatch 1
Star 0
Fork 0
Code
Issues
Pull requests
Actions
Projects 1
Wiki
Security
Insights
Settings
finaltest
Updated now
Filter cards
Add cards
Fullscreen
Menu
0 To Do
0 In Progress
0 Testing
0 Production
Type here to search
10:13 AM
12/6/2021
ENG
IN
10:13 AM
06-12-2021

4. Create a project using Jenkins and do automation by executing the 10 windows commands with screenshots

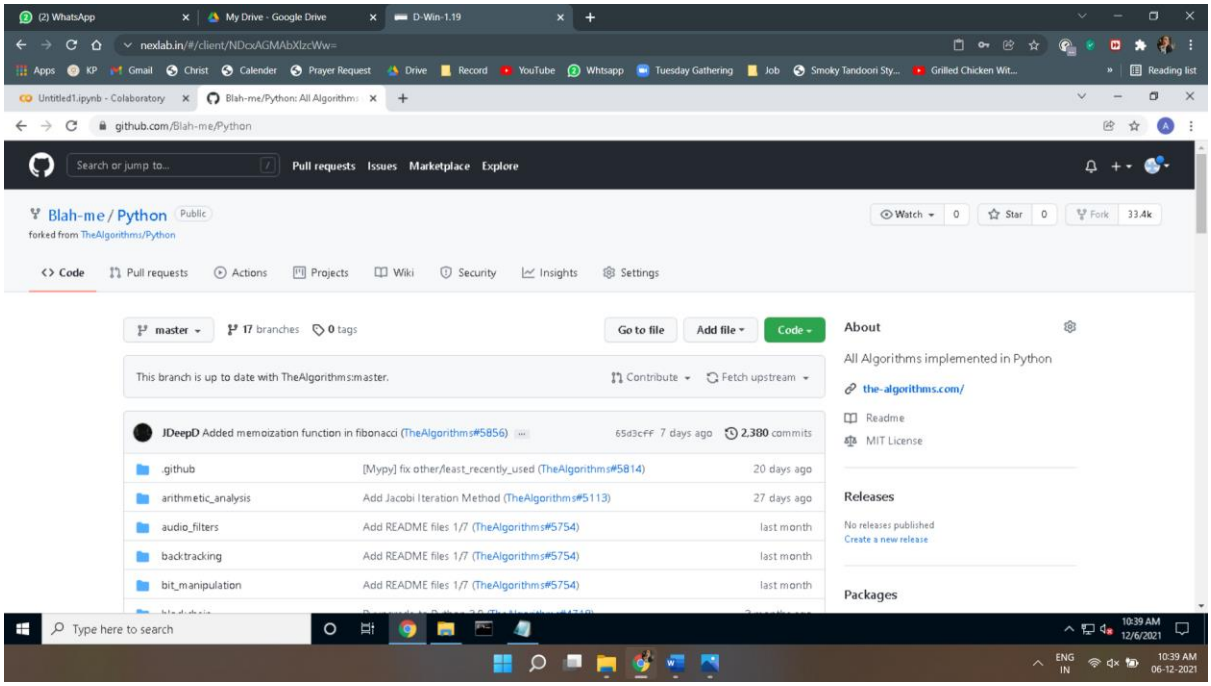
- Search for any project in search bar



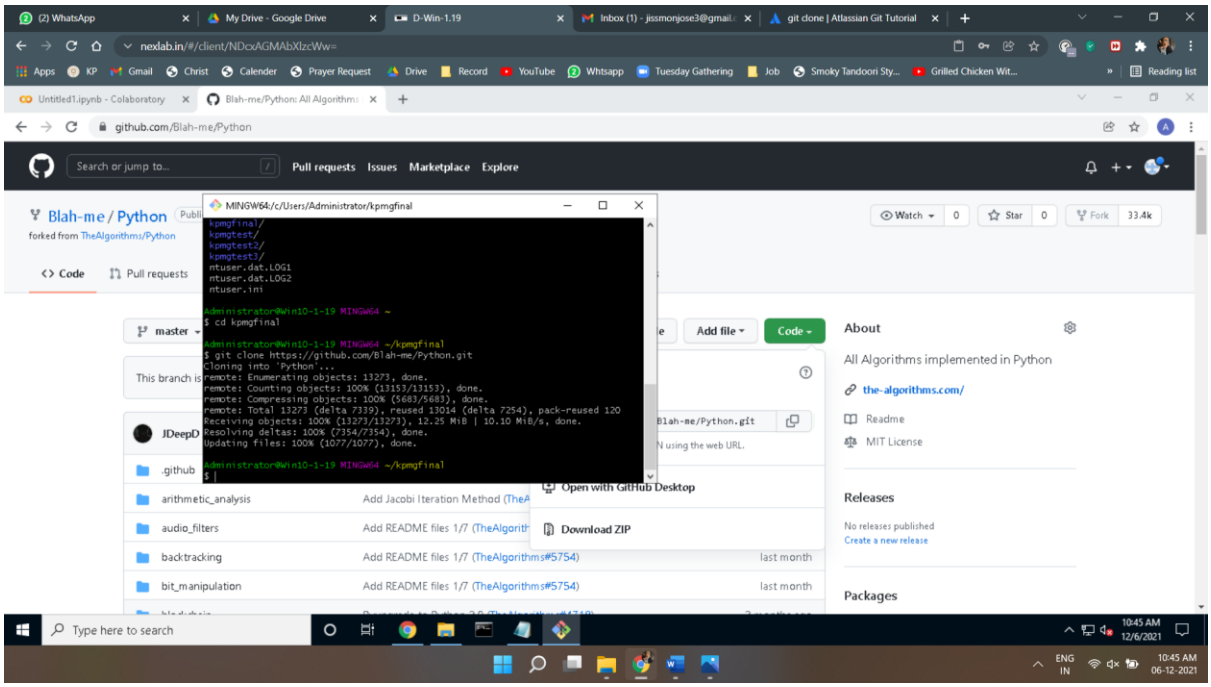
- Click on fork option from right side corner



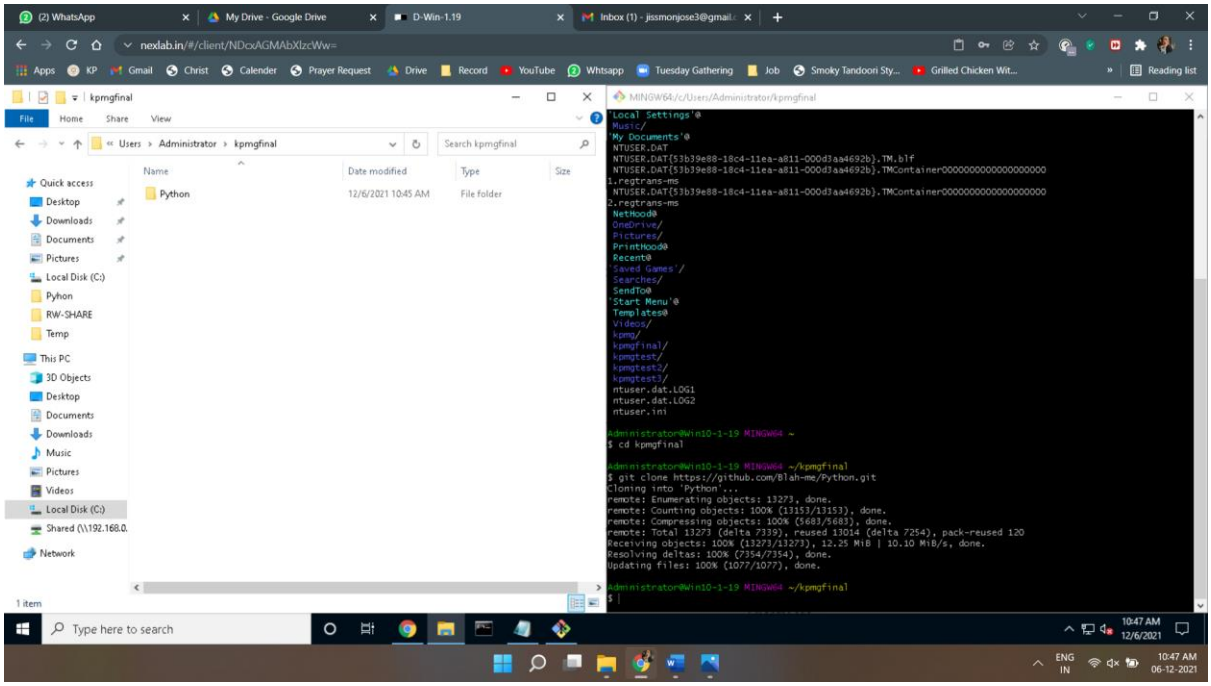
- Once we Fork the project the project comes in our name.



- Copy the code click of the forked project and past it in bash

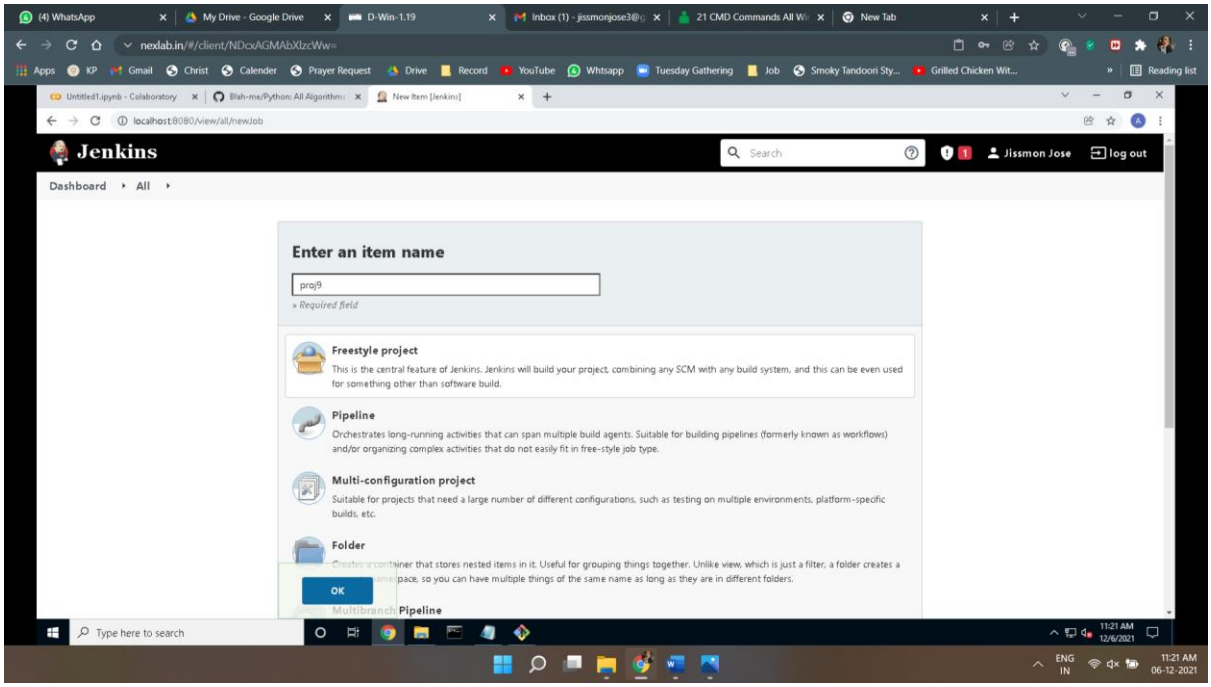


- The cloned filed can be found in the created folder.

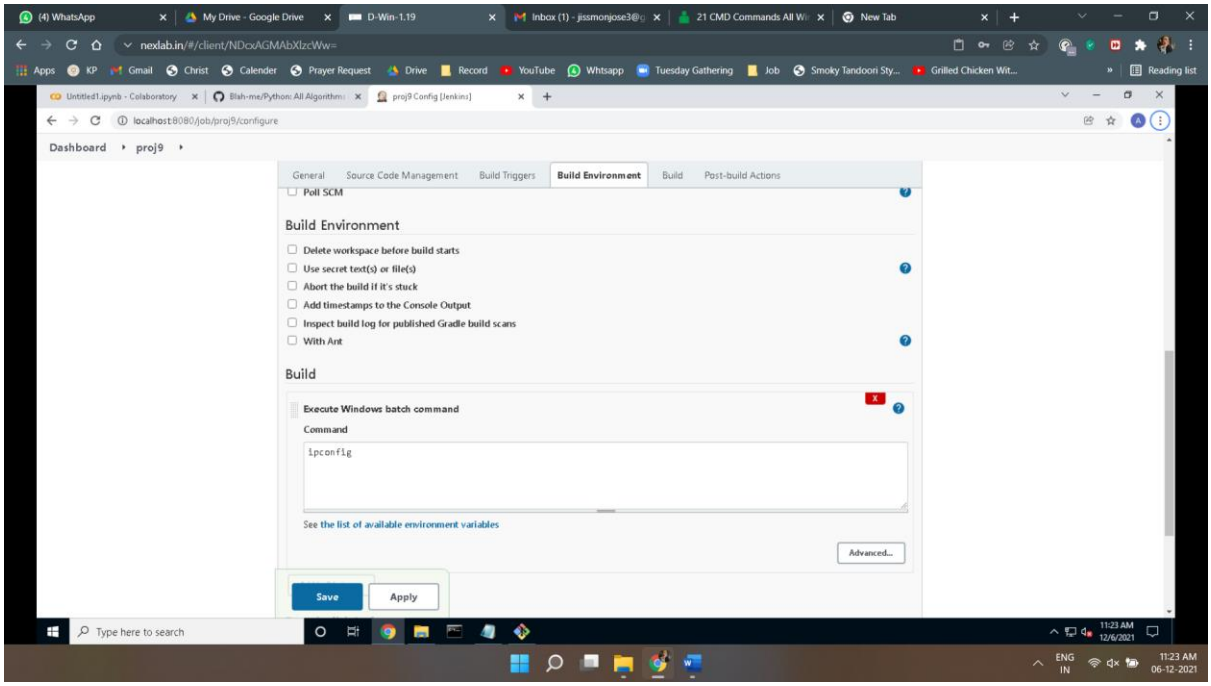

(2) WhatsApp
My Drive - Google Drive
D-Win-1.19
Inbox (1) - jissmonjose3@gmail.
nexlab.in/#/client/NDcxAGMAbXlzcWw=
Apps KP Gmail Christ Calender Prayer Request Drive Record YouTube Whtsapp Tuesday Gathering Job Smoky Tandoori Sty... Grilled Chicken Wit... Reading list
kpmgfinal
File Home Share View
Users › Administrator › kpmgfinal
Search kpmgfinal
Quick access
Desktop
Downloads
Documents
Pictures
Local Disk (C:)
Pyhon
RW-SHARE
Temp
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Shared (\\192.168.0.
Network
Name
Date modified
Type
Size
Python
12/6/2021 10:45 AM
File folder
1 item
MINGW64:/c/Users/Administrator/kpmgfinal
'Local Settings'@
Music/
'My Documents'@
NTUSER.DAT
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000001.regtrans-ms
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000002.regtrans-ms
NetHood@
OneDrive/
Pictures/
PrintHood@
Recent@
'Saved Games'/
Searches/
SendTo@
'Start Menu'@
Templates@
Videos/
kpmg/
kpmgfinal/
kpmgtest/
kpmgtest2/
kpmgtest3/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
Administrator@Win10-1-19 MINGW64 ~
$ cd kpmgfinal
Administrator@Win10-1-19 MINGW64 ~/kpmgfinal
$ git clone https://github.com/Blah-me/Python.git
Cloning into 'Python'...
remote: Enumerating objects: 13273, done.
remote: Counting objects: 100% (13153/13153), done.
remote: Compressing objects: 100% (5683/5683), done.
remote: Total 13273 (delta 7339), reused 13014 (delta 7254), pack-reused 120
Receiving objects: 100% (13273/13273), 12.25 MiB | 10.10 MiB/s, done.
Resolving deltas: 100% (7354/7354), done.
Updating files: 100% (1077/1077), done.
Administrator@Win10-1-19 MINGW64 ~/kpmgfinal
$
Type here to search
10:47 AM
12/6/2021
ENG
IN
10:47 AM
06-12-2021

5.Create a project using Jenkins and do automation by executing the 10 windows commands with screenshots

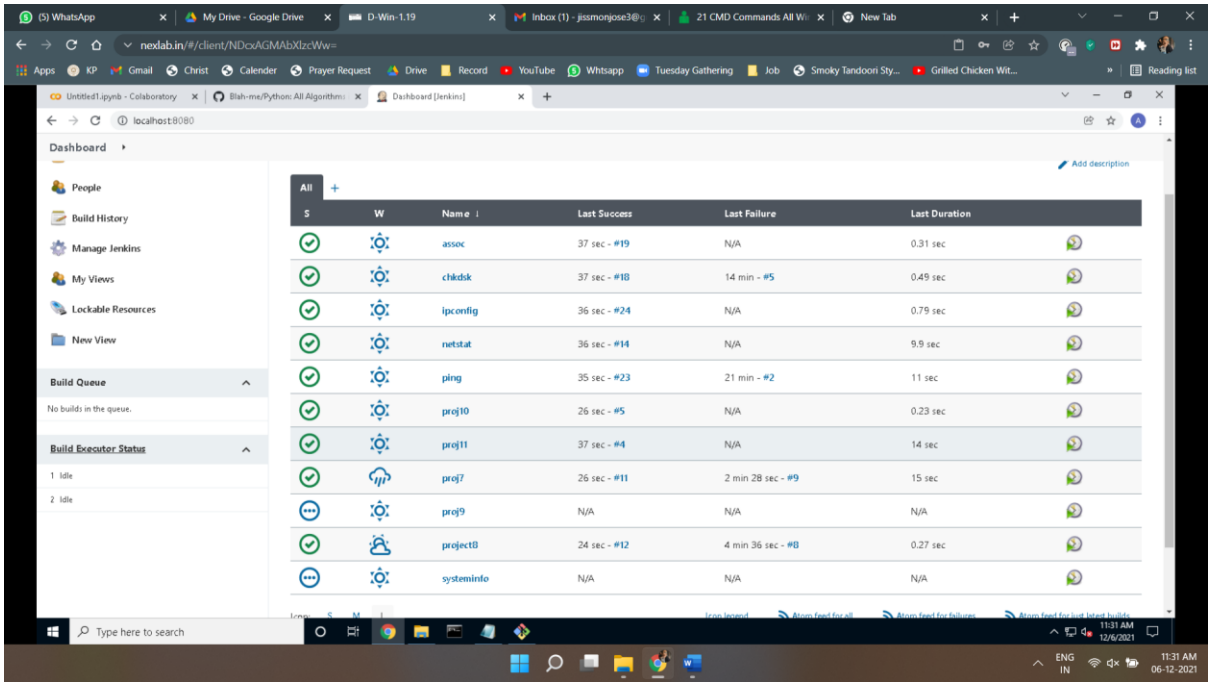
- Login in to Jenkins
- Click on new item from dashboard.
- Enter a name and select Freestyle project



- Give the command and save changes

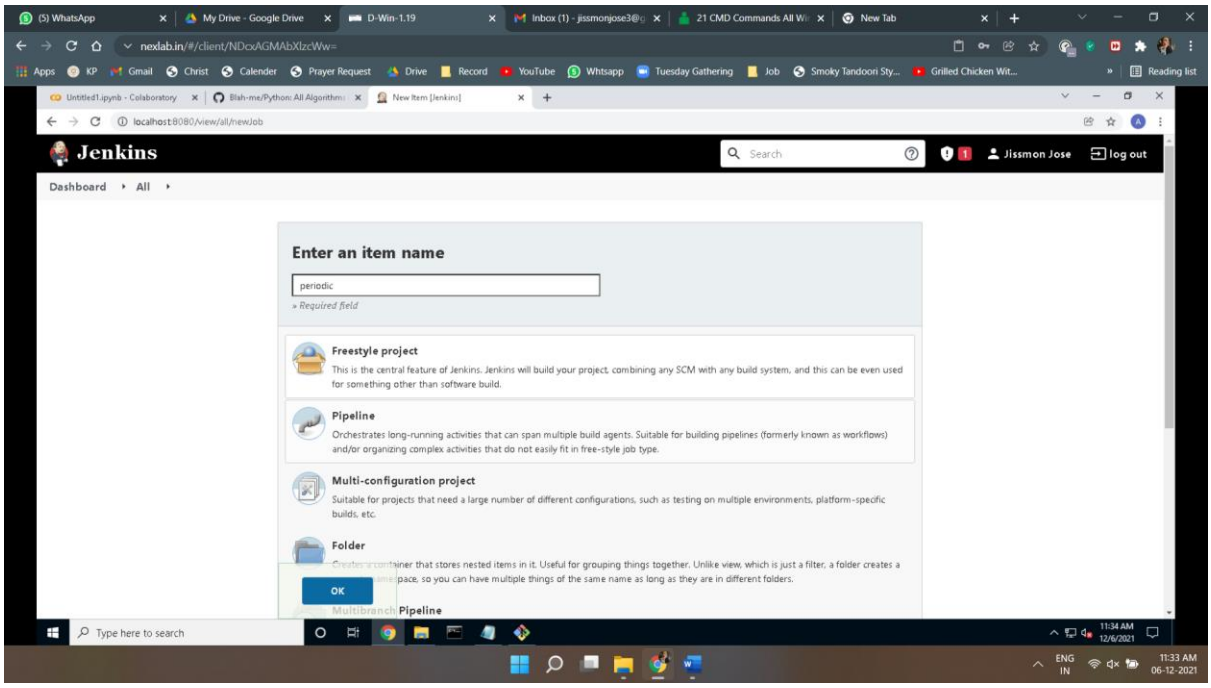


- Repeat the steps for 10 windows commands

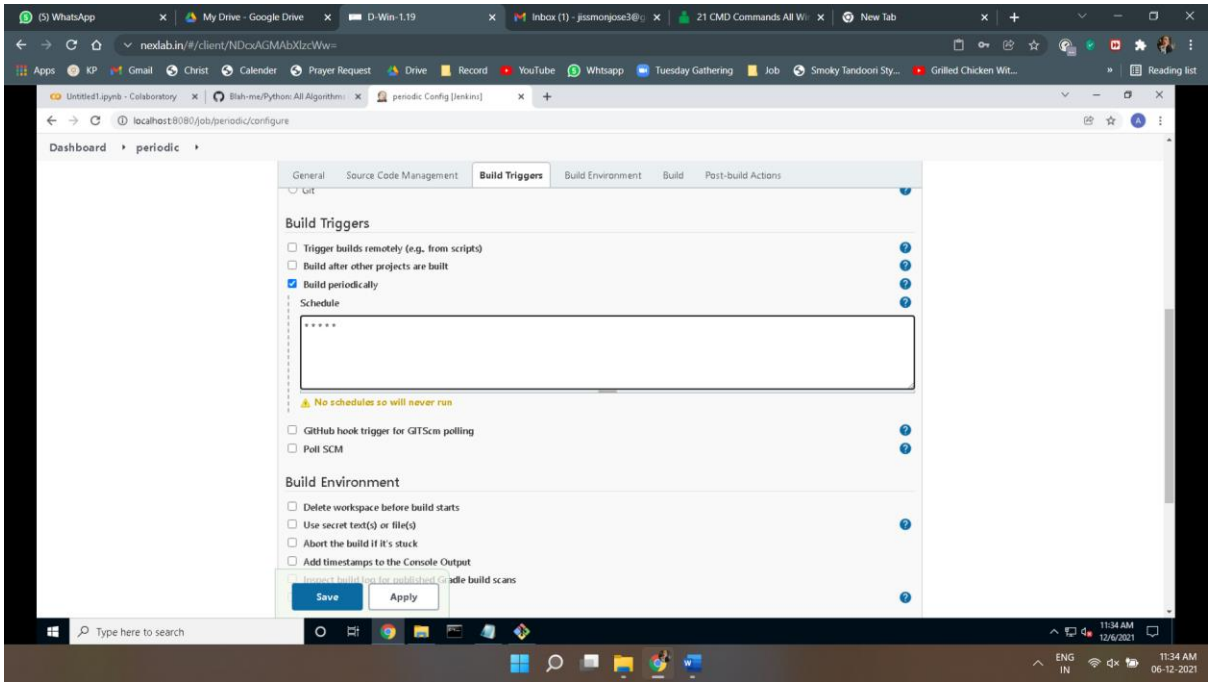

Dashboard
People
Build History
Manage Jenkins
My Views
Lockable Resources
New View
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
Add description
All
S
W
Name
Last Success
Last Failure
Last Duration
assoc 37 sec - #19 N/A 0.31 sec
chkdsk 37 sec - #18 14 min - #5 0.49 sec
ipconfig 36 sec - #24 N/A 0.79 sec
netstat 36 sec - #14 N/A 9.9 sec
ping 35 sec - #23 21 min - #2 11 sec
proj10 26 sec - #5 N/A 0.23 sec
proj11 37 sec - #4 N/A 14 sec
proj7 26 sec - #11 2 min 28 sec - #9 15 sec
proj9 N/A N/A N/A
project8 24 sec - #12 4 min 36 sec - #8 0.27 sec
systeminfo N/A N/A N/A
Type here to search
11:31 AM
12/6/2021
ENG
IN
11:31 AM
06-12-2021

6.Create Periodical automation and explain

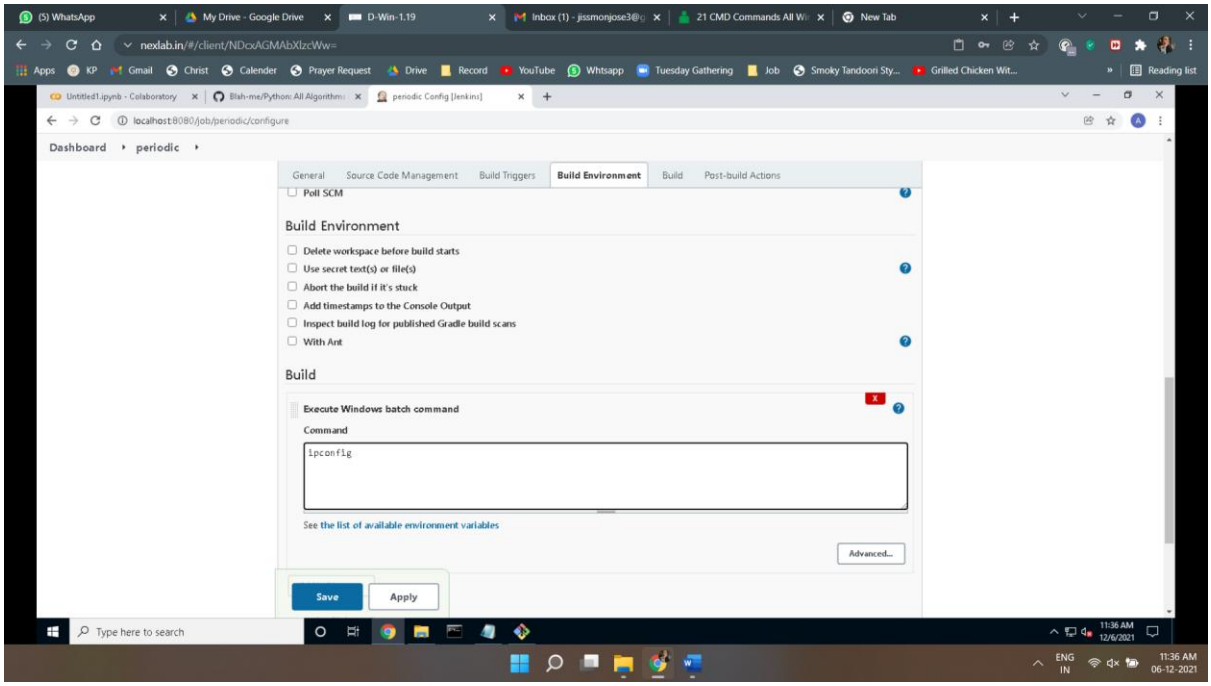
- Create a new item from dashboard
- Enter a name and select freestyle and click ok

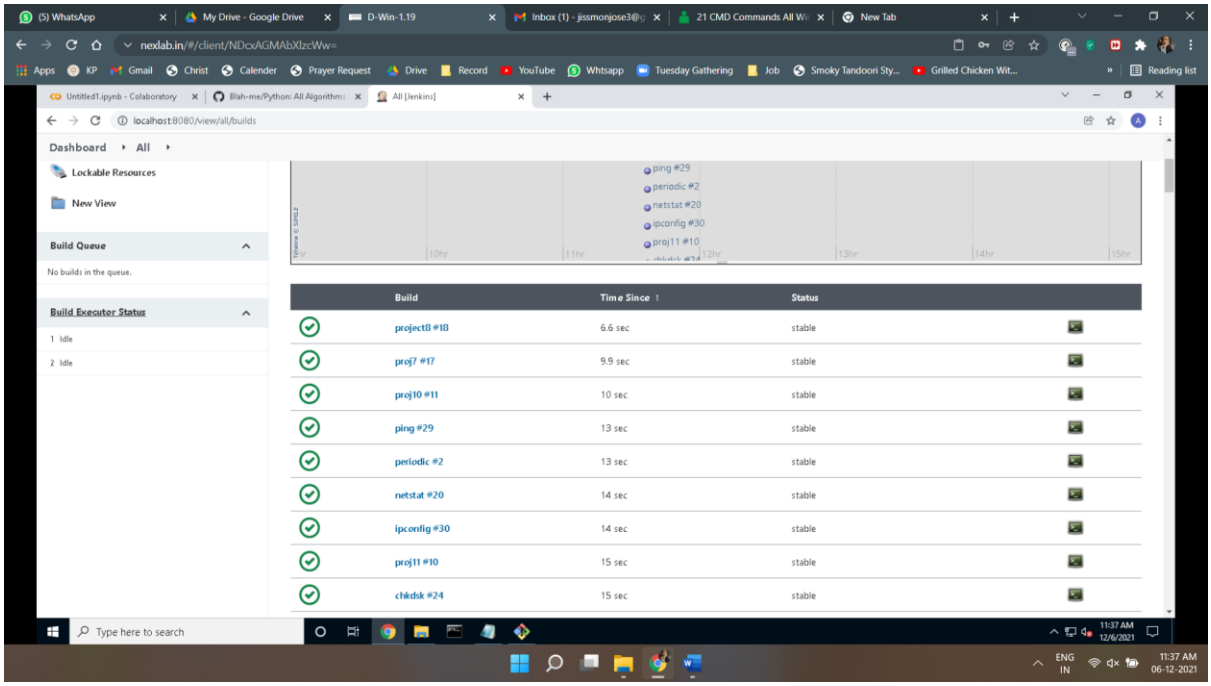


- After giving descrption select Build Periodically from Build Trigger
- And give * * * * *



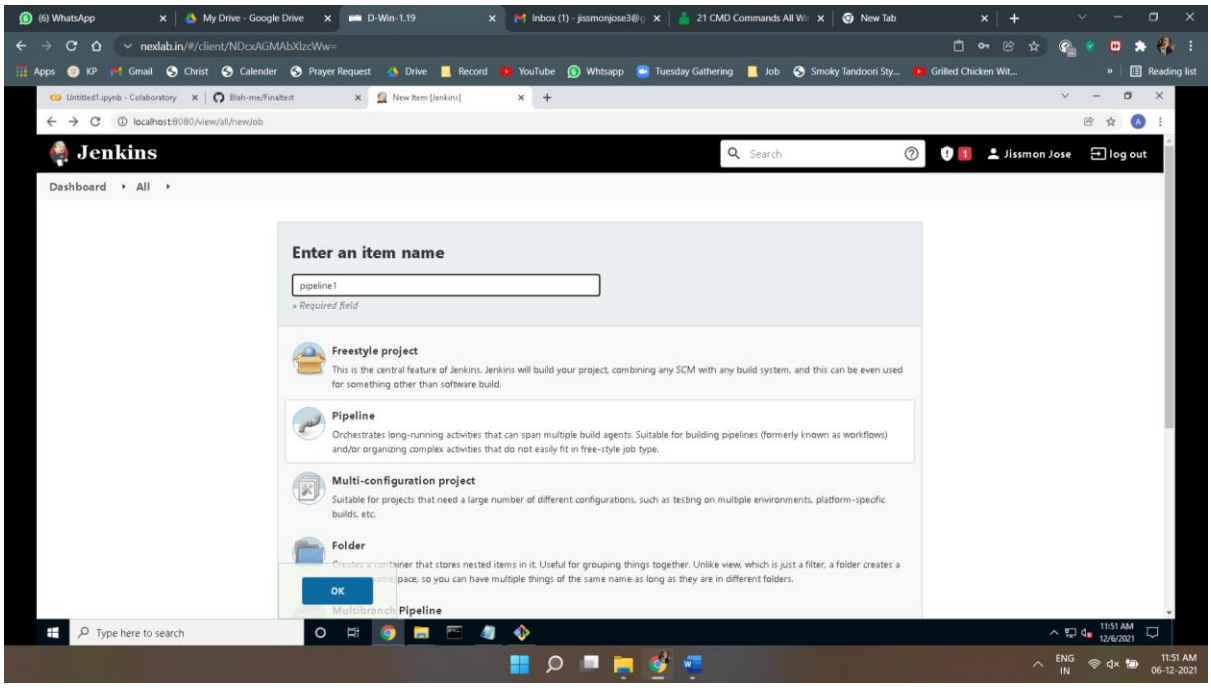
- Select Windows command from build options and give a command and save.


Dashboard
periodic
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Poll SCM
Build Environment
Delete workspace before build starts
Use secret text(s) or file(s)
Abort the build if it's stuck
Add timestamps to the Console Output
Inspect build log for published Gradle build scans
With Ant
Build
Execute Windows batch command
Command
ipconfig
See the list of available environment variables
Advanced...
Save
Apply

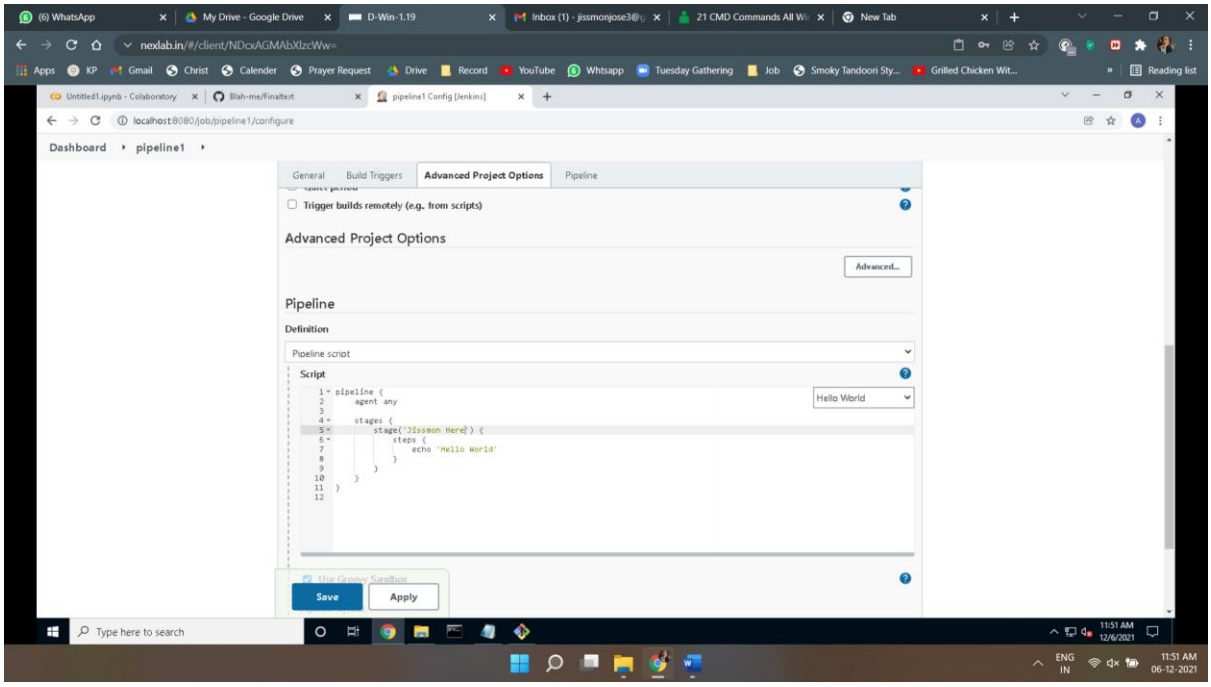

Dashboard
All
Lockable Resources
New View
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
ping #29
periodic #2
netstat #20
ipconfig #30
proj11 #10
Build
Time Since
Status
project8 #18 6.6 sec stable
proj7 #17 9.9 sec stable
proj10 #11 10 sec stable
ping #29 13 sec stable
periodic #2 13 sec stable
netstat #20 14 sec stable
ipconfig #30 14 sec stable
proj11 #10 15 sec stable
chkdsk #24 15 sec stable

7. How to create pipeline and explain with screenshots

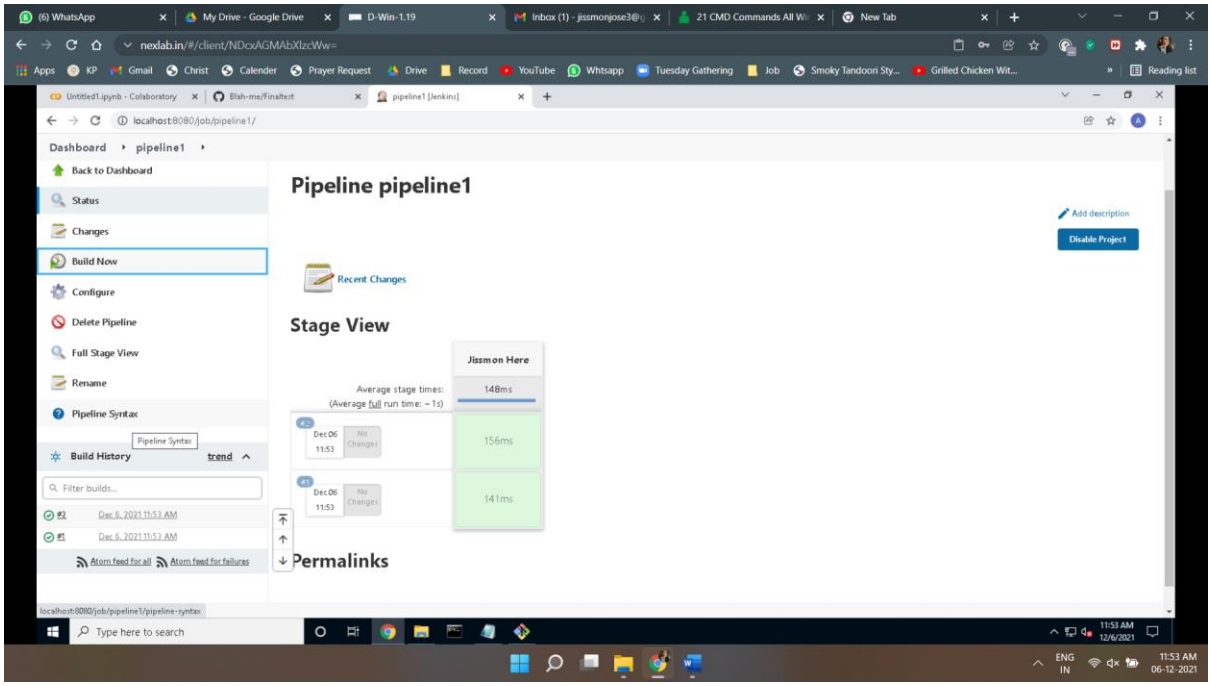
- Create a new item from dashboard
- Give a name and select pipeline option and click save



- Select Hello World from Pipeline script and make changes if needed and click on save.

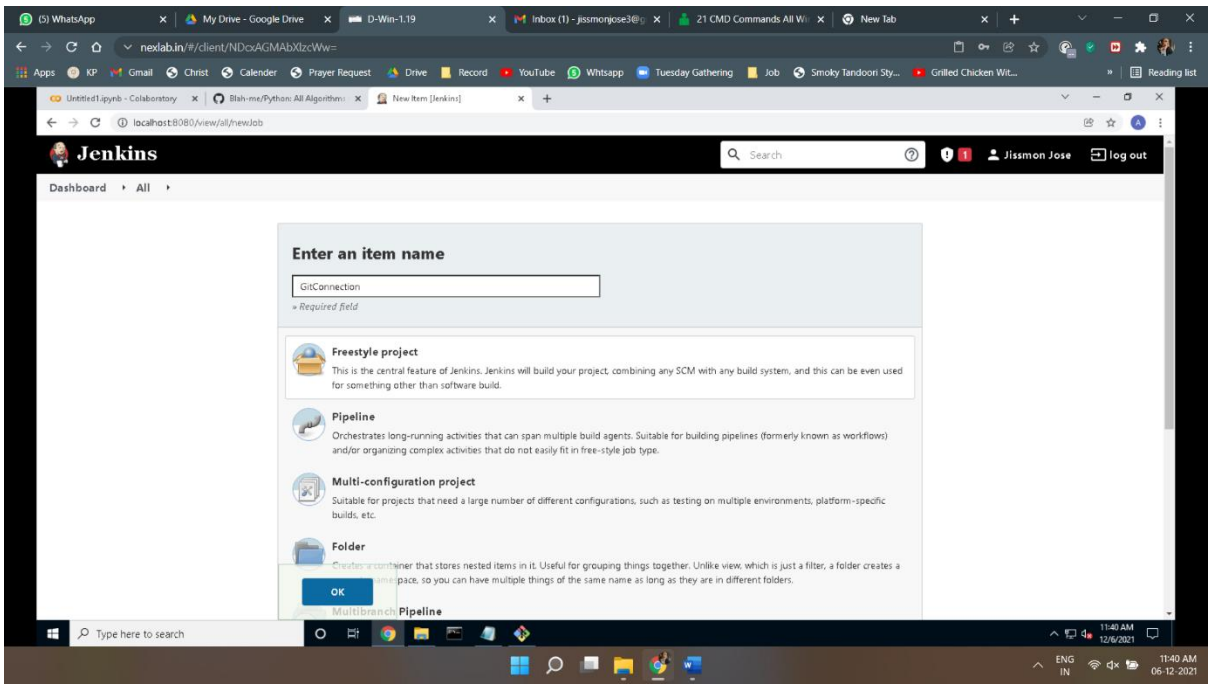


- Click on Build now to see the reults if periodic option is selected it will automatically execute the program

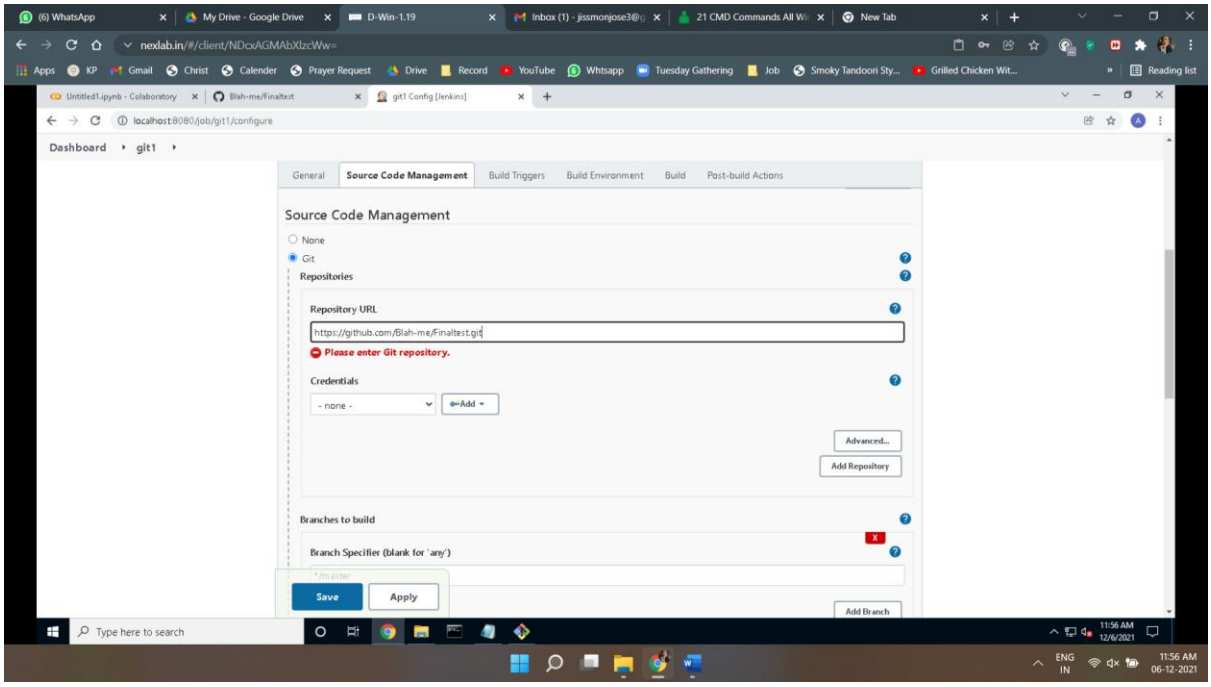

Dashboard
pipeline1
Back to Dashboard
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Pipeline Syntax
Pipeline pipeline1
Add description
Disable Project
Recent Changes
Stage View
Jissmon Here
Average stage times:
(Average full run time: ~1s)
148ms
Dec 06
11:53
No Changes
156ms
141ms
Permalinks
Atom feed for all
Atom feed for failures
Type here to search
11:53 AM
12/6/2021
ENG
IN
11:53 AM
06-12-2021

8. Explain how git can connect with Jenkins and attach the screenshots

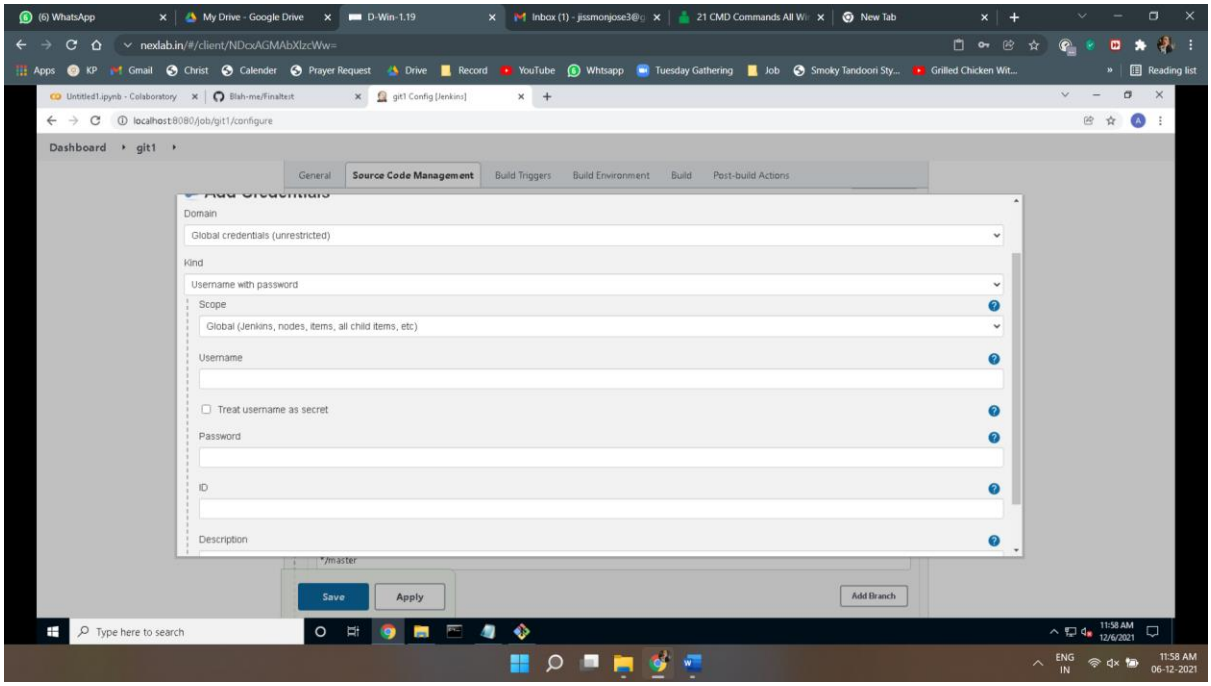
- Create a new item and give a name and select freestyle and save it



- From source management select Git and give the url of thr git hub project.



- Select Jenkins and give the required details in the new window and save



- Once it's saved Click on build option and we will get a windows file path
- Copy past the path and paste it in the cmd