```
Selenium----> library---->collection module(component)
module----> class, def, variable
3rd party library-----> not present--- -> install---->2
install ???? pip
open source
Automation---> UI, Database, API
version----> 3.x now 4.x
python script---->selenium---->AUT---> application under test
concept--->
webapplication--->???
RR cycel---->Request and response
GUI---- presentation
database----> backend
API--->
json---> import json
'key':value --->str
dict----> key:value ----> dict ----> key is immutable
2 methods---->
loads()----> json object to python object
dumps() ----> python object to json object
webdriver---->????----> browser
100%--->
what disadvan--->??
barcode ---->manual
payment ---->manual
capcha ----> manual
Selenium---->
webdriver----> class--->??
class---> enchapsulation
locator ----> variables
methods ----> actions
desktop ---->
No reporting capacuty---->unittest, pytest
from selenium import webdriver
requirements.txt
pip install requirements.txt-- 200+ ---->
virtual env---->
DeprecationWarning:
4.x \longrightarrow 3.x \longrightarrow 12+
python2 dict ---> unorder
python3.6+---> order dict
https://www.selenium.dev/documentation/webdriver/getting started
/upgrade to selenium 4/#firefox-legacy
title=??
if title =="Upgrade to Selenium 4 | Selenium" ----> pass/fail
```

```
#day1
```

```
from selenium import webdriver
import chromedriver_autoinstaller
chromedriver_autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.selenium.dev/documentation/webdriver/getting_started/upgrade_t
o_selenium_4/#firefox-legacy')
if driver.title=="Upgrade to Selenium 4 | Selenium":
    print('pass')
else:
    print('Fail')
driver.close()
```

```
Types of frameworks---->selenium----
1 Modular Testing Framework----->used--->resume
          every tc consider in sepreate---->test_login.py
              ----> test dash.py
              ----> test_resig.py
          all the modules are independed to each
          seprete copy of file(.py)----> is created
          from module import class----> user file
2 Data driven framework----> USED
          tc data is present inside outside of tc
          we are going to use that data--->
          test_login.py----> n user----> test manager
          username---->
          password---->
          used data---->
          module--->openpyxl,mysql-connector or pymysql, csv----> pip install pymysql
          exel(100),database,csv
          mockey testing----> test engineer
3 Keyword driven framework---->modular and data driver
        web elements(locators),description,keyword----> excel,action(optional)
4 Hybrid framwork----> combination of all the framwework----> used
hybrid framwork with POM(page object module)---->yes
page----> is collection of web elements(locator)
object---->yes----> based on object we call the method
module---->yes----> test_*.py or *_test.py
abc.py---->
  import openpyx1
  import login_page
  class Test_login:
    def test enter usename():
       locator----> page.py(all the locators)
       openpyxl----> usename/ database
    def test_enter_password():
       openpyxl----> usename/database
     def test click on sub():
       click----> function/action
11=login()
11.test_enter_name()
100----> 5min----> 500min
```

```
framwork structure---> directory structure
module----> compont
1---> login---> file---->
    login page.py -----> all locator define
    login_test.py ----> test cases--->
    login_helper.py -----> setup(open my brower) and teardown(close brower) ----> unitest/pytest
driver.close()---->current brower will close
driver.quite()----> all brower ----> chrome
how finding locators--->
tools---->extention-----> no one takking---->
  chropath---->
  sectorhub----->id,css,xpath,class
**locators--->web elements----> locator on brower
id ----> strong----> unique in nature----> unique-identify
_____
class ----> mutlple on web browsers----> radio button
                 --->list--->li ul
                 ----> checkbox
                 ----> dropdwon
_____
name ---> radio button,checkbox---> can be different in same group
input type="radio" name='Male'
input type="radio" name='Female'
linktext---->
   full linktext----> we specfy all the context of link
   partial linktext---->we specfy all the substring of link
   Reg or ster
css---->** in deatils ---->
customise css selector
tag and id
 tag and class
tag and attribute
 tag class and attribute
______
xpath----> slow---->last
  DOM---> document object model
abs xpath---> full path---> root node
/html/body/div[6]/div[1]/div[2]/div[2]/form/input
```

```
rel xpath----> partial----> midle node
//*[@id="small-searchterms"]
types---->user ----> time cosumming
css----> casting style sheet----> web development
selenium3---->
a=find_element_by_id(")
str---->immutable----> new location
b=find_elements_by_class(")
list---->[]----> python list----> mutable---> CRUD
selenium4---->
from selenium.webdriver.common.by import By
driver.find element(By.ID,'id of element')
driver.find_element(By.CLASS,'class of element')
driver.find_element(By.NAME,'NAME of element')
driver.find_element(By.XPATH,'XPATH of element')
driver.find_element(By.PARTIAL_TEXT,'id of element')
driver.find element(By.LINK TEXT,'id of element')
driver.find_element(By.CSS,'id of element')
sleep()
Chrome()
get()
maximize_window()----> maximize
close()
send_keys('input')
WAIT()---->
selenium 2 types ---->
implicit wait()---->if wait on brower level
explicit wait()---->if wait at locator or any
how to handle multiple windows----> 3 function
windrow_handler()--->collection of all the windows
current_window_handle()---->unique id of current open window
switch_to_window()---->switching betweens
11=driver.windrow_handler()
12=current_window_handle()
for 12 in 11:
  if 12.
    swith_to_window()
```

```
import time
from selenium.webdriver.common.by import By
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://demo.nopcommerce.com/')
driver.maximize window()
time.sleep(2)
#driver.find element (By.ID, 'small-
searchterms').send keys('Lenovo')
#driver.find element(By.NAME, 'q').send keys('Lenovo')
#driver.find element(By.XPATH,"//button[@class='button-1 search-
box-button']").click()
#driver.find element(By.LINK TEXT, 'Register').click()
driver.find element(By.PARTIAL LINK TEXT, 'Reg').click()
time.sleep(3)
driver.close()
```

```
MVT----> django
M----> Model---> model.py----> DATABASE in application
V---->View----> bis---> processing the data---> CRUD
T---->Template--->html,css,jquery,javascript---> frontend
Commands in selenium---->
1 application commands---->variable
   get(url)--->
   title--->
   current url--->
   page source--->
2 Conditional statement--->***
is displayed() ----> locator displayed ---> True
is enabled() ----> if locator is clicable or taking input --->
True
is selected() ----> radio
3 Browser Commands--->
close() ----> single browser close
quite()---> open browser close
submit() ---> enter from keyboard
4 Navigation commands--->
forword() ----> next browser page
back()----> previous browser page
refresh() ----> page refresh
5 WAIT--->
implicit wait--->sec
            if we want to apply wait for whole application
           all the locator
           driver.implicitly wait(5) # 5sec
explicit wait--->
   perticular codition, element
   WebDriverWait----> selenium.webdriver.
               #5sec
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.support import expected conditions as EC
locator.until(EC.presence of element located(By.NAME,'q'))
expected wait is 5sec---> defect/bug
konsa wait()---->
time.sleep() ---->
TC--->componet / Product ---> explication
FAIL----> elementNOtprsent expection
    ---> elementnotdisploye
   ---> elementnotvisible
```

```
POM----> page object module
type='checkbox' and contains(@id,'day')
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
alr--->
3 type ---> accept, dismiss, input
select---> dowpdown
multiple windows---> window, tab how handle--->
*** DATA Driven FRAMEWORk----> mini---> framework worked frame
developed
1---> mini project/ Python mini /manual s
database---> 4-5hr
APIS ---> 2hr
realtime projects--->3-4hr
automitive--->
insurance domain/ossbss/photoshop management/hospital automatic
system
```

```
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.facebook.com/')
driver.maximize window()
#print(driver.title)
#rint(driver.current url)
var1=driver.current url #'https://www.facebook.com/
for i in var1:
   print(i)
import sys
sys.exit(0)
import time
from selenium.webdriver.common.by import By
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('http://automationpractice.com/index.php')
driver.maximize window()
#var=driver.find elements(By.CLASS NAME, 'homeslider-container')
#print(len(var))
var=driver.find elements(By.TAG NAME,'a')
for i in var:
   print(i)
time.sleep(2)
#find element or find elements
\#a=10 len(a)
\#a=[1,2,3,4]--->
```

```
#dav4
import time
from selenium.webdriver.support.wait import WebDriverWait
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://demo.nopcommerce.com/register')
driver.maximize window()
#elment=driver.find element(By.XPATH,"//input[@id='small-
searchterms']")
#print('display the element',elment.is displayed()) #True
#print('enable the element',elment.is enabled()) #True
#driver.close()
print('**No element is selected**')
male locator=driver.find element(By.XPATH,"//input[@id='gender-
male']")
female locator=driver.find element(By.XPATH,"//input[@id='gender
-female']")
print(male locator.is selected()) #false
print(female locator.is selected()) #false
print('**male is selected**')
male locator.click() #select
time.sleep(2)
print(male locator.is selected()) #True
print(female locator.is selected()) #false
print('**female is selected**')
female locator.click() #select
time.sleep(2)
print(male locator.is selected()) #False
print(female locator.is selected()) #True
driver.close()
```

```
import time
from selenium.webdriver.support.wait import WebDriverWait
from selenium import webdriver #browser
from selenium.webdriver.support import expected conditions as EC
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.google.com/')
driver.implicitly wait(6)
#driver.maximize window()
w1=WebDriverWait(driver, 6)
search=driver.find element(By.NAME,'q')
w1.until(EC.presence of element located(By.NAME,'q'))
search.send keys('hi msg')
search.submit()
driver.close()
```

```
import time
import pdb
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://itera-qa.azurewebsites.net/home/automation')
driver.maximize window()
#single checkbox select
#mon=driver.find element(By.XPATH,"//input[@id='monday']")
#mon.click()
#all the checkbox select
list checkbox=driver.find elements(By.XPATH,"//input[@type='chec
kbox' and contains(@id,'day')]")
#print(len(list checkbox)) 7
#for i in range(len(list checkbox)):# 0 to 6
   # list checkbox[i].click()
#5,6 ---> click
#for i in range(len(list checkbox)-2,len(list checkbox)):# 7-2=5
to 7
    #list checkbox[i].click()
#for i in range(len(list checkbox)-4,len(list checkbox)-2):
\#range(3,5) --->3,4
    #list checkbox[i].click()
#for i in range(0,len(list checkbox)-5):
    #list checkbox[i].click()
time.sleep(5)
#for i in list checkbox:
   # i.click()
driver.close()
```

```
import time
from selenium.webdriver.common.by import By
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.google.com/') #facebook
driver.maximize window()
driver.find element(By.NAME, 'q').send keys('facebook')
time.sleep(5)
driver.find element(By.NAME,'q').submit() #enter from keyboard
time.sleep(5)
import sys
sys.exit(0)
import time
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.facebook.com/') #facebook
driver.maximize window()
time.sleep(3)
driver.get('https://www.amazon.in/mobile-
phones/b/?ie=UTF8&node=1389401031&ref =nav cs mobiles') #amazon
time.sleep(3)
driver.back() #facebook
time.sleep(3)
driver.forward() #amazon
time.sleep(3)
driver.refresh()
```

import sys

```
sys.exit(0)
import time
from selenium.webdriver.common.by import By
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://demo.nopcommerce.com/')
driver.maximize window()
time.sleep(2)
driver.find element(By.LINK TEXT, 'Register').click()
time.sleep(5)
driver.back()
time.sleep(5)
driver.forward()
time.sleep(5)
driver.refresh()
time.sleep(3)
driver.close()
```

```
import sys
sys.exit(0)
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.facebook.com/')
driver.maximize window()
#print(driver.title)
#rint(driver.current url)
print(driver.page source)
import sys
sys.exit(0)
var1=driver.current url #'https://www.facebook.com/
11=var1.split('.')
print(|11[1])
import time
from selenium.webdriver.common.by import By
from selenium import webdriver
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('http://automationpractice.com/index.php')
driver.maximize window()
#var=driver.find elements(By.CLASS NAME, 'homeslider-container')
#print(len(var))
var=driver.find elements(By.TAG NAME,'a')
11=var.split()
print(11)
time.sleep(2)
```

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
from selenium.webdriver.support.select import Select #dropdown
driver.get('https://www.opencart.com/index.php?route=account/reg
ister')
driver.maximize window()
drp contry=driver.find element(By.XPATH,"//select[@id='input-
country']")
#print(drp contry.is displayed())
drp=Select(drp contry) #dropdown is activate
#3 methods--->
#select by visible text(' ')---> visible text on UI
#select by index() ----> 0 to len-1 ---> first(0) menu to last
menu(len-1)
#select by value() ----> value front engineer
#drp.select by visible text('Aruba') #user ko jo visible
#drp.select by value("4")
#drp.select by index(10)
r=drp.options
#for i in r:
   # print(i)
#print(len(r))
time.sleep(4)
driver.close()
```

```
1 1 1
Alerts / PopUp--->
driver.switch to.alert ----> our context we move to alert
window
text ---> text of alert
accept()----> ok click
dismiss() ----> cancel click
//button[normalize-space() = 'Click for JS Prompt']
Authentication alert ----> ???
user/pass ---> alert???
1 1 1
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://the-
internet.herokuapp.com/javascript alerts')
driver.maximize window()
#pop1=driver.find element(By.XPATH,"//button[normalize-
space()='Click for JS Prompt']")
#pop1=driver.find element(By.XPATH,"//button[normalize-
space() = 'Click for JS Confirm']")
pop1=driver.find element(By.XPATH,"//button[normalize-
space()='Click for JS Alert']")
pop1.click()
time.sleep(5)
var1=driver.switch to.alert
#var1.send keys('Hi i am input box')
var1.accept()
               # alert window click on OK buttom
#var1.dismiss()
time.sleep(5)
driver.close()
```

```
1 1 1
https://the-internet.herokuapp.com/basic auth
authencation--->
https://username:password@url
111
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://admin:admin@the-
internet.herokuapp.com/basic auth')
driver.maximize window()
time.sleep(5)
driver.close()
```

```
import time
from selenium import webdriver
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('http://automationpractice.com/index.php')
driver.maximize window()
#driver.switch to.new window('tab') #to open new tab---> on same
browser
driver.switch to.new window('window') #new browser open for next
urls---> different browser
driver.get('https://www.selenium.dev/selenium/web/web-
form.html')
time.sleep(5)
driver.close()
```

```
import time
#ActionChains
from selenium import webdriver
from selenium.webdriver import ActionChains
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
drive=webdriver.Chrome()
drive.maximize window()
drive.get('http://seleniumpractise.blogspot.com/2016/08/how-to-
perform-mouse-hover-in-selenium.html')
at=drive.find element(By.XPATH,"//button[normalize-
space()='Automation Tools']")
act=ActionChains(drive)
act.move to element(at).perform()
time.sleep(3)
drive.find element(By.XPATH,"//a[text()='TestNG']").click()
time.sleep(3)
drive.close()
import sys
sys.exit(0)
import time
from selenium import webdriver
from selenium.webdriver import ActionChains
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.maximize window()
driver.get('http://seleniumpractise.blogspot.com/2016/08/how-to-
perform-mouse-hover-in-selenium.html')
time.sleep(2)
automationTool=driver.find element(By.XPATH,"//button[normalize-
space()='Automation Tools']")
act=ActionChains(driver)
act.move to element (automationTool).pause (30).click (driver.find
element(By.XPATH,"//a[text()='Appium']")).perform()
import sys
sys.exit(0)
import time
from selenium import webdriver
```

```
from selenium.webdriver import ActionChains
from selenium.webdriver.common.by import By
import chromedriver autoinstaller
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.maximize window()
driver.get('http://seleniumpractise.blogspot.com/2016/08/how-to-
perform-mouse-hover-in-selenium.html')
time.sleep(2)
automationTool=driver.find element(By.XPATH,"//button[normalize-
space()='Automation Tools']")
act=ActionChains(driver)
act.move to element(automationTool).perform()
time.sleep(2)
driver.find element(By.XPATH,"//button[normalize-
space()='Automation Tools']").click()
time.sleep(2)
print(driver.current url)
```

```
''' AUtomation/framweork developement
How to handle multiple windows---->
window----> unique id
1. window handles ---->
       all the windows id in 1 list--->[A,B,C,D]
        list[0]---> parent window ---> automation context
       list[1:]---> child windows
2. current window handle ---->
   unique id of current window----> parent----> 11[0]
3. switch to.window(windowID) ---->
    from one window to next window
   context will switch from 1 to provide windowID
Programs---->A,B,C,D
11[0]--->A
11[1:]--->B,C,D
11=driver.window handles
c window id=driver.current window handle(id)
c window id=driver.current window handle(id id 67832D)
l1=[id 0109A,id 78978B,id 67816C,id 67832D]
c window id=id id 67832D
for w in 11:
    if w==c window id: #last
       driver.switch to.window(c window id)
       driver.close()
parent window--->
child window1--->
child window 2--->
child window3--->
context---> is located on parent window
driver.close()--->single browser close--->
konsa window close hoga??---> automation through---> webdriver
driver.quite()---->all the open browsers
konsa all windows close hoga??----> automation through ---->
webdriver
```

```
import openpyxl
# we need to install 3rd party library---> python present but
we use
#file---> workbook--->sheets--->rows--->cells(r,c)
file1="E:\Book1.xlsx"
workbook=openpyxl.load workbook(file1)
sheet=workbook.active #parent sheet
row=sheet.max row #5
column=sheet.max column #3
for r in range(2, row+1): #range(6)---> #0(title) to 5
    for c in range(1,column+1):
        if r==2 and c==2:
            sheet.cell(r,c).value='Mumbai'
workbook.save(file1)
import sys
sys.exit(0)
#all row and column se data read
for r in range(2, row+1): #range(6)---> #0(title) to 5
    for c in range(1,column+1):
        print(sheet.cell(r,c).value,end=' ')
    print()
import sys
sys.exit(0)
v=sheet.cell(4,2).value #Mumbai
print(v)
v=sheet.cell(1,2).value #city
print(v)
v=sheet.cell(1,1).value #name
print(v)
v=sheet.cell(2,3).value #89545614
print(v)
```

```
#ddf functions
import openpyxl
def get row count(file, sheetname):
    workbook=openpyxl.load workbook(file)
    sheet=workbook[sheetname]
    return sheet.max row
def get column count(file, sheetname):
    workbook = openpyxl.load workbook(file)
    sheet = workbook[sheetname]
    return sheet.max column
def read Data(file, sheetname, rowno, colno):
    workbook=openpyxl.load workbook(file)
    sheet=workbook[sheetname]
    return sheet.cell(rowno,colno).value
def write data(file, sheetname, rowno, colno, data):
    workbook=openpyxl.load workbook(file)
    sheet=workbook[sheetname]
    sheet.cell(rowno,colno).value=data
    workbook.save(file)
```

```
import time
import function for ddl
from selenium import webdriver
import chromedriver autoinstaller
from selenium.webdriver.common.by import By
chromedriver autoinstaller.install()
driver=webdriver.Chrome()
driver.get('https://www.selenium.dev/selenium/web/web-
form.html')
driver.maximize window()
file1='E:\VB.xlsx'
row=function for ddl.get row count(file1,'Sheet1')
for r in range(1, row+1):
    usrname=function for ddl.read Data(file1,'Sheet1',r,1)
    password=function for ddl.read Data(file1,'Sheet1',r,2)
   print(usrname, password)
    #inputbox=driver.find element(By.XPATH,"//input[@id='my-
text-id']")
    #inputbox.send keys(usrname)
    #time.sleep(5)
#passwordbox=driver.find element(By.XPATH,"//input[@name='my-
password']")
    #passwordbox.send keys(password)
    #time.sleep(5)
    #driver.find element(By.XPATH,"//button[normalize-
space() = 'Submit']").click()
    #time.sleep(5)
```

```
2 framework----
unittest or pytest ----> integration for all framework
import unittest ---->
import pytest ---->
pytest, unitest---> OS---> linux
*** working people--->**
name ----> present modulename in python
name==main ----> current module execute
other module name == module name
if name == ' main ':
    current module code
init .py ----> interpreted--->compiler
unittest ---->inbuild framework
import unittest
unitest.TestCase ----> class
   D/I----> unittest
test case name unittest----> aplh
assert statement---->actual expected
assertequal() ---->pass
assertnotequal() ---> pass
defect---> developer
fixtures in unittest and pytest--->
UI testing---->
setup--->open brower
testcases
teardown---->close brower, quite
database testing---->
setup--->connection to data
testcases
teardown---->connection close
data driver testing/keyword driven---->
setup--->file-->woorkbook--->sheets--->row--->cell
testcases ----> samplefile.writeadd()
teardown--->save()
API testing
setup---> r=request.get()
testcases---> v=r.response
```

```
assertequal (v, 200)
teardown--->
samplefile---> 4 functions
maxrow, maxcolumn, read, write
fixtures---> setup(prerequist) and cleanup activity
setup(self)
teardown(self)
@classmethod
setUpClass(cls)
@classmethod
tearDownClass(cls)
skip--->
@unittest.skip ----> decorator ---> perticular tc will skip
Ok
failure
error
1 display our result on console we can our result in log file
2 all the Case will be execute based on Aplhabical
3 as part of batch(testsuit, job) execution, all the tc from
testcase class will be execute
4 if to name is same---> python support---> only recent to
    method overloading----> in same class method name same
5 fixture---> 4method--->
setup, teardown, setupclass, teardownclass
6 grouping TC---is not supported in Unittest
Test Suit--->Unittest
suit ---> collection of all the tc
Master suit--->(700+)---->all tc type
stable master suite----> 90 %
                                  10%--->
payment, bar, scanner, rect or angular
                            proctator tool----> agular js, react
5 tc--->
failed at 3??
```

- ✓ Frameworks C:\Users\Admin\PycharmProjects\Framew
 - > ____.pytest_cache
 - Package1
 - > ____.pytest_cache
 - 🐌 __init__.py
 - 🐌 test_login.py
 - 🛵 test_signup.py
 - Package2
 - > ____.pytest_cache
 - 👼 __init__.py
 - 🐌 test_certificate.py
 - test_payment.py
 - TestSuit
 - 👼 __init__.py
 - All_tc.py

```
#test signup.py
import unittest
class SignUpTest(unittest.TestCase):
   def test signupbygmail(self):
       print('this to is for gmail signup-')
   def test signupbyphone(self):
       print('this to is for phone signup')
    def test signupbyfacebook(self):
       print('this tc is for facebook signup')
if name == " main ":
   unittest.main()
#test login.py
import unittest
class LoginTest(unittest.TestCase):
   def test loginbyqmail(self):
       print('this tc is for gmail login')
   def test loginbyphone(self):
       print('this tc is for phone login')
   def test loginbyfacebook(self):
       print('this tc is for facebook login')
if name == " main ":
    unittest.main()
#test cerrtificate
import unittest
class CerficateTest(unittest.TestCase):
   def test certificatebyname(self):
       print('this tc is for name of vendor')
   def test certificatebyformate(self):
       print('this tc is for pdf formate')
if name == " main ":
   unittest.main()
#test payment
import unittest
class PaymentTest(unittest.TestCase):
   def test paymentbydollor(self):
       print('this to is for payment dollor')
   def test paymentbyrupees(self):
       print('this tc is for payment by rupees')
if name == " main ":
    unittest.main()
```

```
#test_suit file
import unittest
from Package1.test_login import LoginTest
from Package1.test_signup import SignUpTest
from Package2.test_payment import PaymentTest
from Package2.test_certificate import CerficateTest

t1=unittest.TestLoader().loadTestsFromTestCase(LoginTest)
t2=unittest.TestLoader().loadTestsFromTestCase(SignUpTest)
t3=unittest.TestLoader().loadTestsFromTestCase(PaymentTest)
t4=unittest.TestLoader().loadTestsFromTestCase(CerficateTest)

santitysuit=unittest.TestSuite([t1,t2])
functionalsuit=unittest.TestSuite([t1,t2])
mastersuit=unittest.TestSuite([t1,t2,t3,t4])
unittest.TextTestRunner().run(santitysuit)
```