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letu An**ize**ri(z) Vetus. 1) selenium :-

selenium is open-source tool that Automoted web 64000500000. It provides a single Intersace that lets you write test scripts in programming languages. I'll JAVA, CH, PHP, Ph-Aton and others.

location, in seanium webdiviver is Rersonmed by
the help of Sindelenet () and Sind(Ameds() methods
Provided by webdivion.

Locator & He way to identify the fitted element ...

id(), name (). Classname (). XPoth, link text ().
Partially link text, CSS Selector, forename.

3) XPath - Extensible Marrup binguise.

If the elements are not sound by the general bostons like Jd, name, class name etc. then xpath is used to find an element on the web Pase.

validate Wath: absolute x Rath

Rolative xpath

1. It is the direct was to Find the chanat, but the disadantace of the A. XRoth is that if there are and whomes made in the Path of the elevat.

List enous

listeners lister to the events that we desired) in our Script. We can use listeners for reporting. of whenever any test case fails we can fake its screenshot.

A I have used I Test Listenen which has differe methods like on start, on-sinish, ontest, on fest failure etc.

Ha to Revun the Sailed test cases

- 1. We can Yun testing failed . Xml
- 2. Using I Retry Analyzer Interface
- 3. Usins I Annotation Transformer (I) and I Retry Antzel transorm (). Yetry.

Custom exception

custom exception is creating your own except while some class and thrains that exception usins the throw. Keyword.

MS Exception in the below code extends the Exception class.

Why we say JAVA is object oriented longuage?

* In Java & everything is object based and by creating the objects of classes and by their references we can communicate with the data mereben and their functions and its supports Pillous Gr oops- Inheritance, Polymenthsm, Encapsulation, Albitraction.

> int as = \$2,4,6,8,23; int tene 00;

for (int iso; iza.length; i+t) { for (int j=# j29.lasth; j++) {

is (asi) rasis)

tame = aci3; a[i] = a(i]; alij=trap;

333 Sor (int K=0; x6a.lensth; k++)(33 35 Stsout (964)+1"");

* 0 # 00

* The

Why JAVA I other

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class

* The new personal in stave Instantities a class by allocating desired memors for an associated new object.

* It then returns a researce to Hat manory.

* The new kerwood is solved by a call to a Constructor, which instantiates the new object.

* The JAVA new Kesword is used to execte on instance of the class.

implicity directs the selation are believed to whit sora - certain masure time to before throwing the extent Once this time is set, webdivier wait you the clement before exclipit wit - the exertion occurs.

fluent unit = plant wait in selection makes the Maximum amount of time for selenium wething. to wait Sur Certain Contain Becomp with at by near or had relegion and all office at the

waits was the same

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Thread slepp().

relative half

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Chie

Selenium IDE SSIVETOX only use Gelenium RC selenium webdiven -> re use cavid + Foretime were were use Bonnander window code - - Driver - - Blausen

Steps: Download the Jay file configure to jay file Download the driven exe file

SteB :-

Creste a java Project Create a new Folder [vc Project - -> new - -> Folder --> lib] cops and Paste the jar in 116 folder From davolcades YE jan -- > build Path -- > add to build Bath Create a new Solden Crc Project - -> new --> sluder -- > drivers? Extract the danloaded driver Zip folder copy and Poste the exe file indriver solder from downloads create a class

Kes:

Chrome zueb driven. Chrome. driven 9 CCKO - Webdiven gecko dviver ie-webdriven. ie driven

Class :-

Chrome - chrome Driver Secko - & Fivefox Driver ie - Internet Exploren Driven PHONE TO MISTER LAC MADOW

> How to dounload Comenium "

SAR FIRE build REL [1/64007 A

gecto-five sox innorunane

Locators lacations clarests in Scienium webdings is personned with the help of gird Element () and find Elements () methods Provided by Webariven and Web Elements Interface. webdriven and web Element - I SIND Flower ()-m rejums a web Element object based on a strifted search criteria or ends up throwing an exception it is it does not find any element 5 a sedniyo matching the Search Criteria. Sind Elements ()-m returns a list of webtlements matchins the search criteria. If no claments are found, it returns on empty list. BY - Abstract class this class Having all locations methods in FA (Chook id () - m 109 in office name ()-m 15 Pect Class Name 1)-m

xPath ()-m tackdame()-m - PUMPUT COLON name pront la ironame TIAK TEXT ()-M Partially LinkText ()-m

pad ker na Americano KUDUUM

Town I YOU'VE ! and

webblemout . - - - I

CSSSelector ()-m

Sond keys - M - - - To send / Pass to Values to text boxes click D - m - - to Click any link, image button, valid button, chave box in weblase C) next tre="email">

in Put - Tao Name Tope - Attribute Namo

email = Attribute Value

IT PUT Vtino ST 5.009

PACE !

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XAth: XML fath - -- Exkasible MAVKUP language

1. If the elements one not found by the Jeneral locators like id, class, name, etc. then xpath is used to sind an element on the unb Roe

2. Validate X Path = (1) absolute XPath

-> It is the direct was to find the element, but the disadvantage of the absolute XIII is that is there is one and chances made in to Rith of the element then that XIII gets failed.

--> The key characteristic of xPath is that it be sins with the single forward shaph(1), which many you can select the element from the voot node.

Relative XPath : (1)

1

-> Relative Xpath Stalled Svom the middle of HTML form structure. It starts with double sowward slash (11). It can search characts anywhere on the websites.

--> Pelative Xpth is always Preserved as it is not a complete both from the root element.

XPath Syntax "-

11 tag Name [Gattribute nome= at tribute value]

XB+h index Syntax.

(1/tasMame [@attributename = attribute value] [index]

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Actions - - - Class 5-10-00 Actions class is solution as hardling restand and more class 1. To do masse over action: move To Element () -- m SYNEAX: Cuebe Actions obs = now Actions (mebalviver ves); Q . W Obj. Move To Element (webele ret). Per form (); LebBle 2. To do dras and DOP: /1 mo 200 SAND Drop () -- m d. [Syntax: Man-Actions Obj = new Actions (Laboriver vet); Obj -dras And Drop (Source, Destination). Perform (); d. a Prosyan. Action -- class move & Flowert () - move Rani work Ramon dras AND DIOP () context click() DY double click () drive drive Programi-Public Class Actions & ACH main () Gebe CPE System 1 Set Property webdiven driver . get ("http://www. sveentech"); diner. manage() . timeouts (). implécit/youit (20, Timeste 110 driver, mase (). window (). maximize(); 10

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VK - VIVYUN) /COJ

Rblic class

11 Actions a = now Actions (driver)

Robot Y= New Robot ()

11 txtuoname, sendreus ("Dingh"); mobstanent the vername = driver . find Element (By. Id (Page)).

"IDOUBLE Click wins Action

a. duble Click Etxturename, Parform. Right click Wins Action

a. cont ext Clicic (fxt wername). Person()

11 Y. Key Ress (Key Front. VK John)

11 N. Kestelase (Kessent, NK_Down);

11 v. Kes Ress (Kessvont. VK_Dann);

11 V. res Relase (Kestront. Vr- Daw)

(1 v. Kes (rest cont. NK-Jours);

(IV. HON Relase (ME) FRAT. VE-DOWN)

11 V. 1103 Prays (Key Evont. VIC - ENTER.

11 Y- Major So (Kestiont. VIK_ BUTCH)

11 web Blood txtRassword - driver. Sind 1-1 ment (By. id ("Rass")) a context (ilk (txt &ss word). Person ();

Sou (int 1=0; 124; 1++) { V. 42 Ress (nossont. VK-BUN) V. Key RealSC (Kettont. VV_Dan)

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Drop Down Hom Code :-

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Select:

select By Index (10);

select by value ("IND").

select Bluisible Text ("India")

select vet = select (wolflement vet Name);

select : class

1. select By value () - m

2 Select Boursible Text()-m

3. Select BU Sidex () - m

4. get oftions () - m

S. get All selected Options () -m

6. 9et firstselected option ()-m

7. is multiple 1) - m

8. deselect Bridex ()-m

9. deselect Bo value () _ m

10. desclect Bavisible Text ()-n

11. deselect All () - m

Sistem out Aintho ("-" my solected option."); 5/3/cm.at. Print 10 ("--- All 4/fas-- 1); List Chelificient > a= 5-50+ All Schorted Offices () for (westerest x costions) { List Luck Elment > OPTions = 5. octop 1 long (); Websternert doop1 = dviver sindstreent (B) in ("multi-stery 1 IS multiple ALL OPTIONS 11 select Visible Text disson . Jet ("HHB://www. spice System at front in (x. Set Text ()); Statement Avintin (nultiple) bulean multiPle = S. ismultiPle () Sxster. out. Wint In (Y. Set Text (1)); 11 Select Value S. Selecter Visible Text ("Texas") 1/ Select index Public class JAP Journa (School S= ven select (WAND) S. Schertssyn nel (New york 1); S. Sepert BUTINEX (1): Wordown multiple 11 500 Solow 5.0 1 des 50 30 115 1100 230 7/5

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Alert - Alert : Interface Alert is a small message box displayed on the sun ? I con WEBER the useres a. chi JAVASCHIPT POPUP 11 50174 WEBE switching the alert: Aleast Yestrame =driver . Switch To (). alext (): tax90 Alort CONF types. 1 Simple alert --> contains only ox botton ... (UP Should arrow ! Thre 2 Consim alert - - O Contains both oix and conce 1 button (Either was: 11 1 accept or dismiss this akre) sprompt alert - - -) Contains text box with ox and concel button. a (0) to insert "yes" to accept the ale (or) we love. to give 'No" to dismiss the art 115 methods in Alext : Ale 1/30 accept () -- m -- to accept the alevet dispriss () -- m -- to dismiss the alext sendicess () - m - - to insect the values get Text () - · m - · to Print the Text From the Alert. Program-2 Public class & 1. // simple alert web Element as = driver. find Element (BV. XPath ("// botan)) 91. click (); 11 switch to simple dert Alert Fayset 1 = dviven

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Taxessorenshot -- Soterface JAVASCIT SetschenshotAS() --- method. exec Stars tsielast -- Taxes Screenshot tx = (faxes screenshot) driver. insert: store screenshot in desport storage Both aryune dick :-(veste a new screenshot forken a YOUM cops from default 18th to new fix 18th got Altribute . fileUtils - - - class return COPYFILE - - Method (Domoon Mag. SCYOLL down to common to say ayounew Rexist -Per Polder 185 ayoument? Public Class screenshot & Pare sites Program -Public 11 / Tyle wonverstion (OY) UP (astin > 11 long acloi JAVAS 11 int b= 20; 1) serà re 11 9500 WebEler 11 11 HPC (astin) (a) down Casting is . exec // infracto; Webstane 11 long 6=20; 35.04e 11 9= (nx) b; 11 cret Atti Taxes creenshot tx = (Taxes screenshot)driver; object use FIRE from = til. set ScreenshotAS (OUTPUE TOPE, FILE) Statem DUE 115 Yours out Print in (Ham)" 15 CO NUEVELIA FILE to = new File ("E:) works re 11 scienium 8 to 11 mm steins Fil Putil S. (Syfile (Syon to); System out Wintin (1- -- Done

12-10-20 TOWNSWIPT FREGULOV: Interface - dissout types of oferation 13-10-2021 executescript () - m josent: river: arrivents [o] . Set Pttribute (value : "Green') ASCK -Vangarum 19-9ct arounents[0] .click() gataltwoote: yeturn arswents[0] . Set Attribute ('Value') SOVOLI down NP. on maken arguments (o] . scroll Into view (true) 4 dam 11down aroumants [0] . Scholl Intoview (Salse) ide abde HUP e sevenshot Program Public class JS [JAVA SCYIPE Executor is = (JAVASCYIPE Xecutor) diver: 11 send kers websterent tot womme = driver. Findstement (By. id ("email"); is execute SciPt ("arguments &). set Attribute (Value, "Direch") tot userning. cueletiament but Passavoid = driven. Sind Element (By id ("Pass")); is exect exypt ("arguments of. Set Attriorte ("Value", '98 185"), txtRsquip 11 cret Attribute object user = is Creates evipt ("vetur disments[a]. get Attitute ("value)" system out Print In (usen); tituserme) =) (rankertins abi to string (sor wing string methods) string q = user to string (); 1) Facebout 1

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So divers. Sindelement (BY YBATA (")/Buttonia So server between the boin of the boin"), between the boin of the boin 11 is executes cript ("an arrents[o] · click (); btn Lgin); 1/ SCYOLI DOWN Thread Sleep (5000); webstacet help = driver. find Flemend (By XBth ["1/a [text 1)= help is execute svipt ("arruments[o] . Scroll Into View (true), here) 11 SCYOR) UP Thisad. Sleep (soog). is executes cript ("arguments [e]. Scroll Intovie u (saise)! though 168 18-10 Na Visation Commands 11 Thread WOLL AND DISS 64 9et () & navitate to () 11 Three set () It is used to go to the Particular website by does not maintain the browsen history and Gookies so we can't use surround and backhard button. we click on that, Base will that set scheduled. A Paviste (). to() It is used to so the Ryticular website , bil maintain the browsen history and cookies

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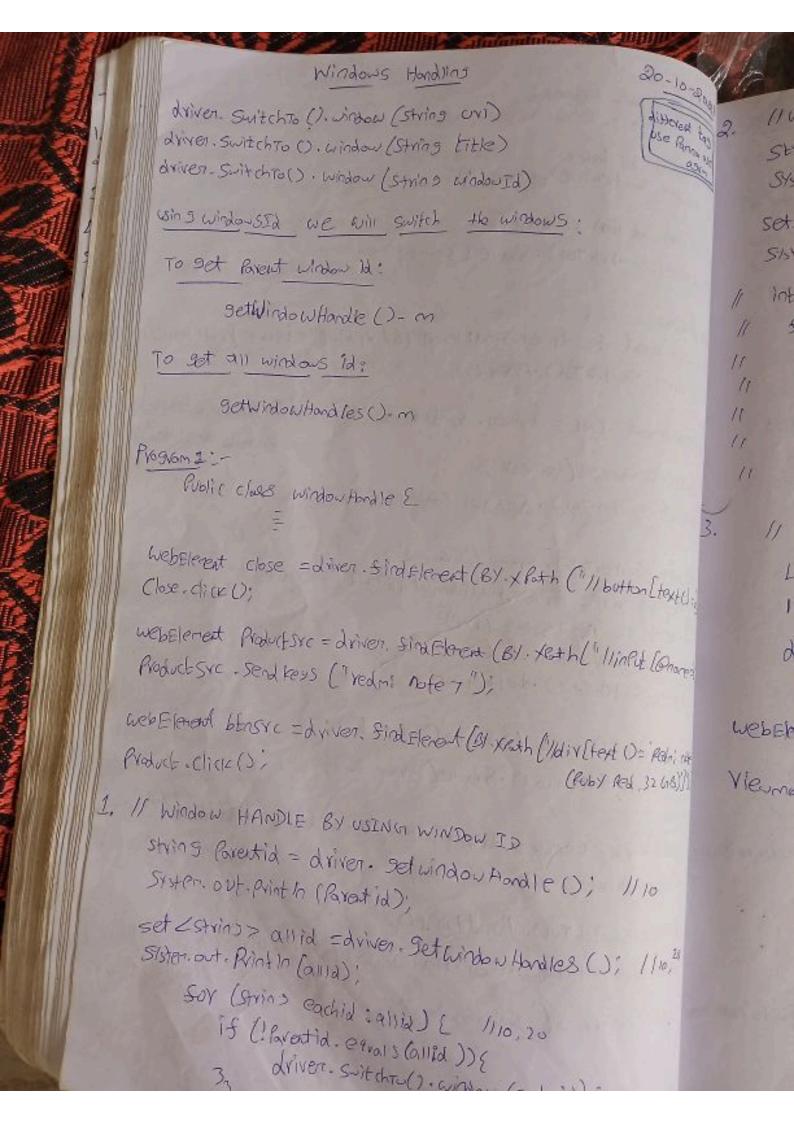
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5 Vstan. aut. Print In ("Before select +gender. is Selected ()); Throad - Sleep (2000); 2000. Click (); System out frint in ("A Stor Select" + render. is selected (); Frames 19-10. DOM SYNTAX: istage < isvame ld = '876' name='h8769'/> Francit driver. switch To. frame (String &id) 116 [0]2= +091]1 driver. Suitch To. Frame (String name) driver. Suitch to . Frame (webElevet element) Palole driver. Soitd to . Share (int index) 四 http://demo. guru 99. com/test/guru99 home/ 1 frameset>

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ari 31/ Sapul
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              Web Element Check = driver. find Element (By x Pth ("VA) GId=a))
              Check . click();
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             Lebelerent txta = driver find element (By . x Path ("1/6 600- tol)
                                                                     1/50/10/19:184
             txt2. send keys (" Subramanian");
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2-10-203
               1/WINDOW HANDLE BYUSING COUNT
               String Rivertidas driver setwindow Handle O.;
ie Rona use
               Statem out- Printla (Breatide);
               set/strins > allida = driven . setwindow Handles ();
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               int count 1
                 for (strin) Cachid allida) {
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                   Count ++ )
              // WINDOW HANDLE USING LIST (SET TO LIST ADD)
                List Estrins > 11 = new Arroy List List 1string >0;
3x+()=x)
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                driver. Suitch to (). window (1. get (2));
name=(1)
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In other
                                                               = ((Rumore )));
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13) [ (C)
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a webtable. When we create a table Table S made of for a web Rage that is Yours and columns with GIII. 21-10,209 (a))(d)

web

In HTML, table is created using Ltable> tag.

2. Dynamic web table Types of webtable 1. Static webtable

1 NH/7 Ltd> mais / Litd> < N3 7 Ltd> name //td> 2 fd> (d2/td> 1 table>

th-table headen th - table data fr-table You

Program 1:-Rubi) c class Table 8

I websicant table I = tables . Set (0)" 11 Table System out. Printin (tables. size ()); List englishment > fables = driver. sindstancets (By tagraph)

>tston.out. Printin (Text); String text = table 1. Sourcext (); WELERMENT FABLEZ = driver. SindElment (BY. XPath ("1) table Did=100 Skiter. Out. Print In C" --- ALL DATA FROM TABLE

> Systemou List Lowe for (in WEDTIN Strins

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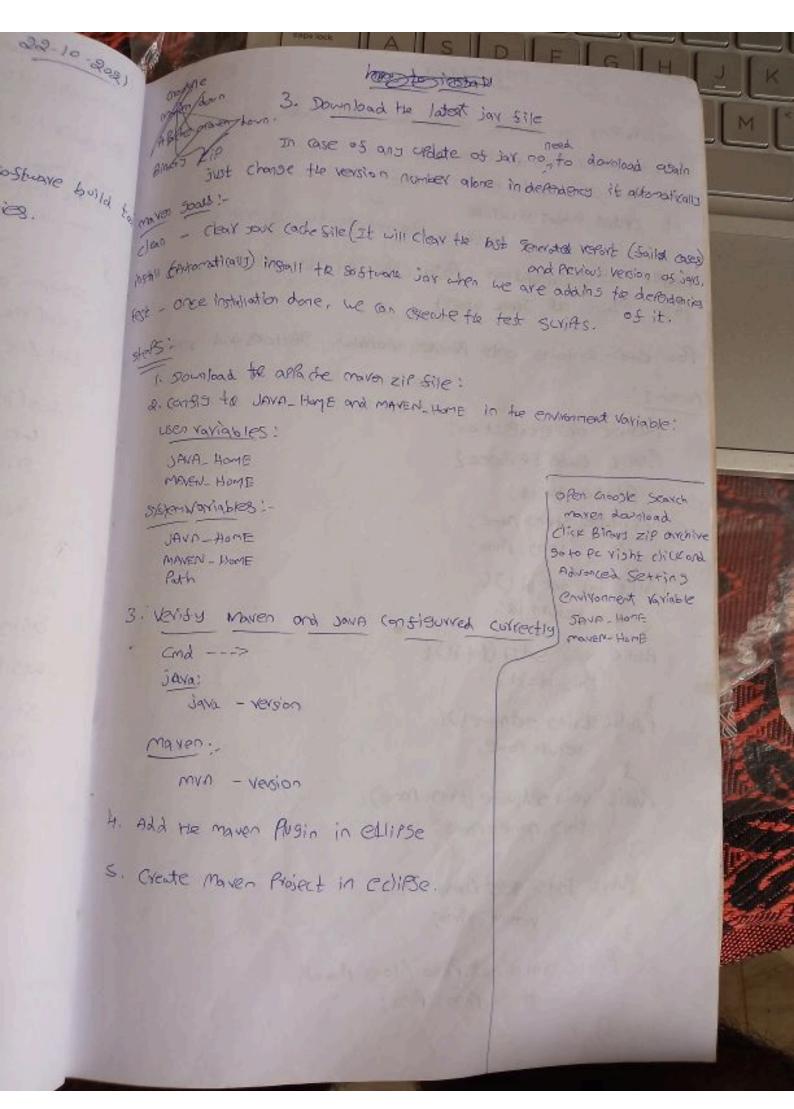
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Login 1 = new Losin();

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511 Text box (1.50 tixt Boows 20, "98574"); fill TextBox (to). get [xt uson name (), "Invien Tech");

It will find the only one locator for one webelement

It used to find one or the mentioned to conform of sind to sind the wells Find All :- (Yethorathu one correct to irthe Pothum.) Find BYS: - (Yethavath onnu errornalum output error than) It used to find one or more locator for same weblefament but

is valid soins to sind the rebelement but; Lorgins bound on of Officialor, mentioned locators arrow It used to find one or more locator for one or same with

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28-10-83 Plosta Data Driven Framework Excel : extentions sormat: · ×15: YOW- 2116 Column - 2A8 · X1 SX: YOW_2120 column - 2114 MACROS SUPPOYES JAR: JXL - . XIS Po I -. X15+ . X15X WOYKBOOK ·X1s - - > HSSFWOYKBOOK - C · XISX --->XSS FWOY 12 BOOK - C maven Dep! Ldelendency? LgroupId> org. aPache. Poi L/9 You Pid> Zastifact Id > Poi - Doxm / Z/astifact Id) Eversion > 3.8 - beta 4 Elversion > Lderenden (17

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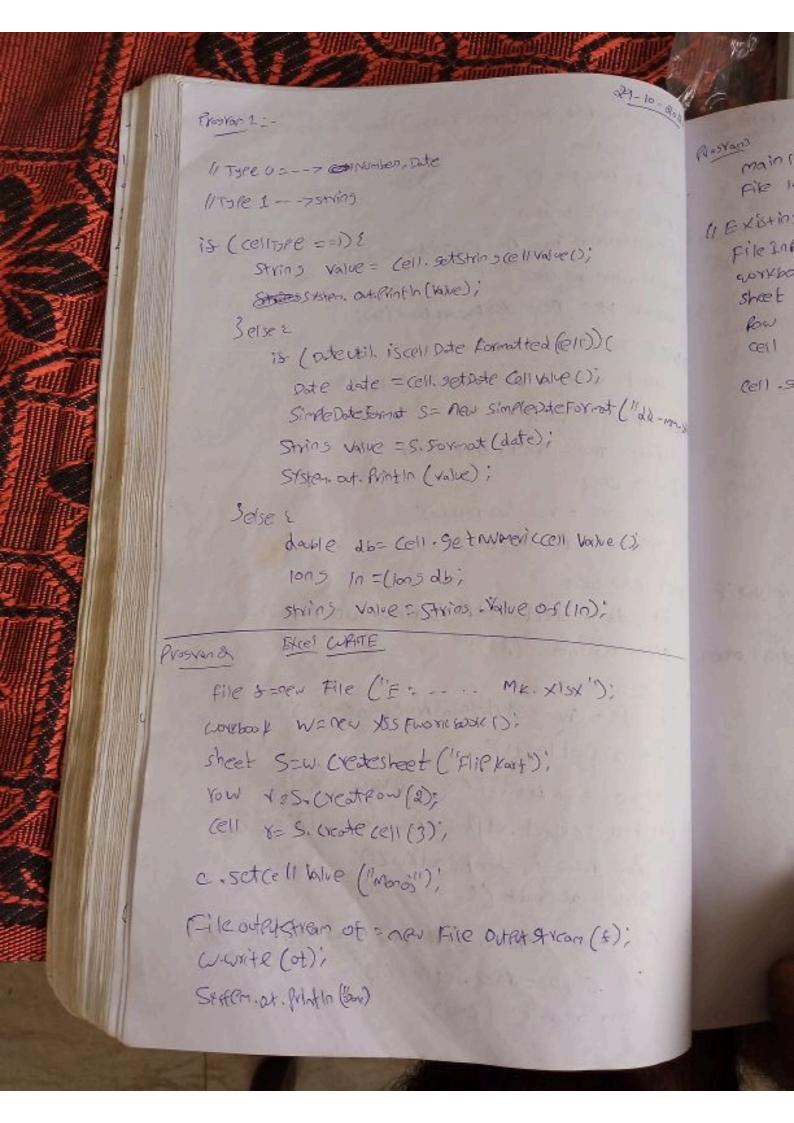
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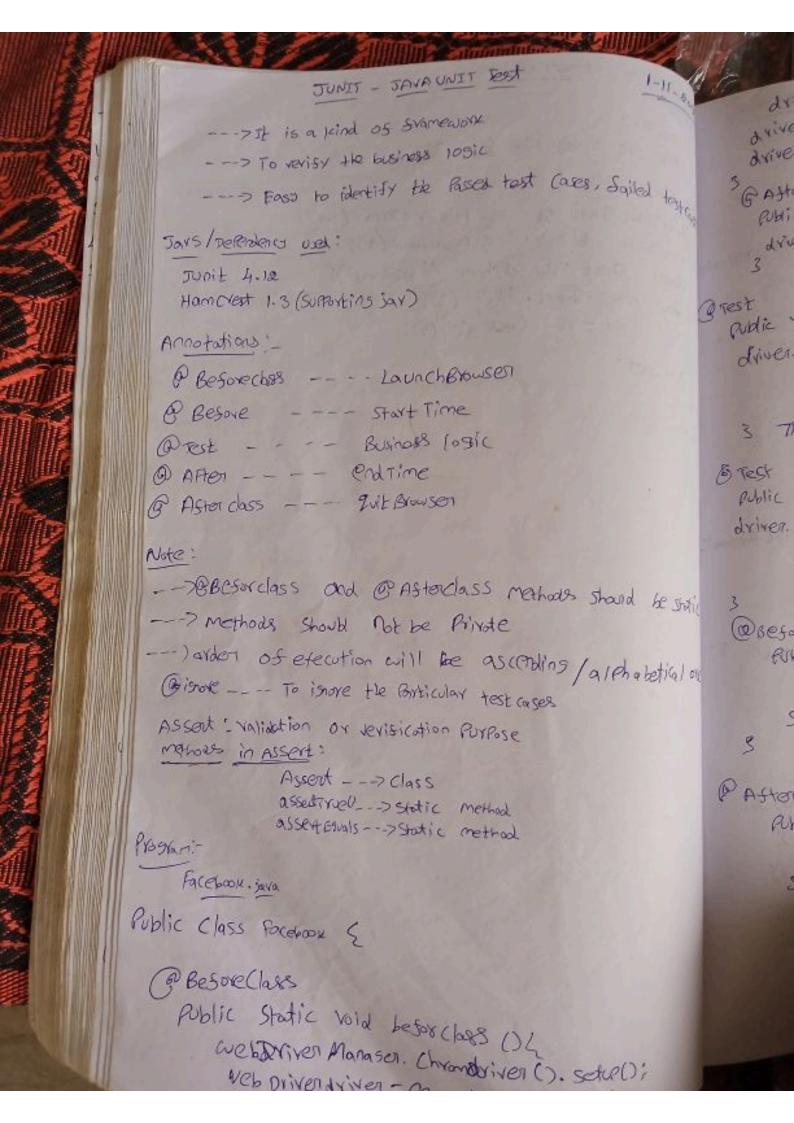
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28-10-2021
                public static void main (strins[] ares) throws Toexcertion(
               1/ File rocation
               FILE S = New File ("E:11 ....");
               / pile convert to java
               pile Inputstyam ia = now file Inputstyam(s);
              APORMAT WHAT WE WE
              workbook WK = New XSS FWORK BOOK (ia);
             11 DITER TO SHEET
                 sheet sheet = wk. SetSheet ("datas");
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                 ROW YOW = Sheet . get ROW(0);
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            for (int 1=0; 12 sheet . set Physical Number of Rous (); H+) s
                     for rowa = sheet get Row(i);
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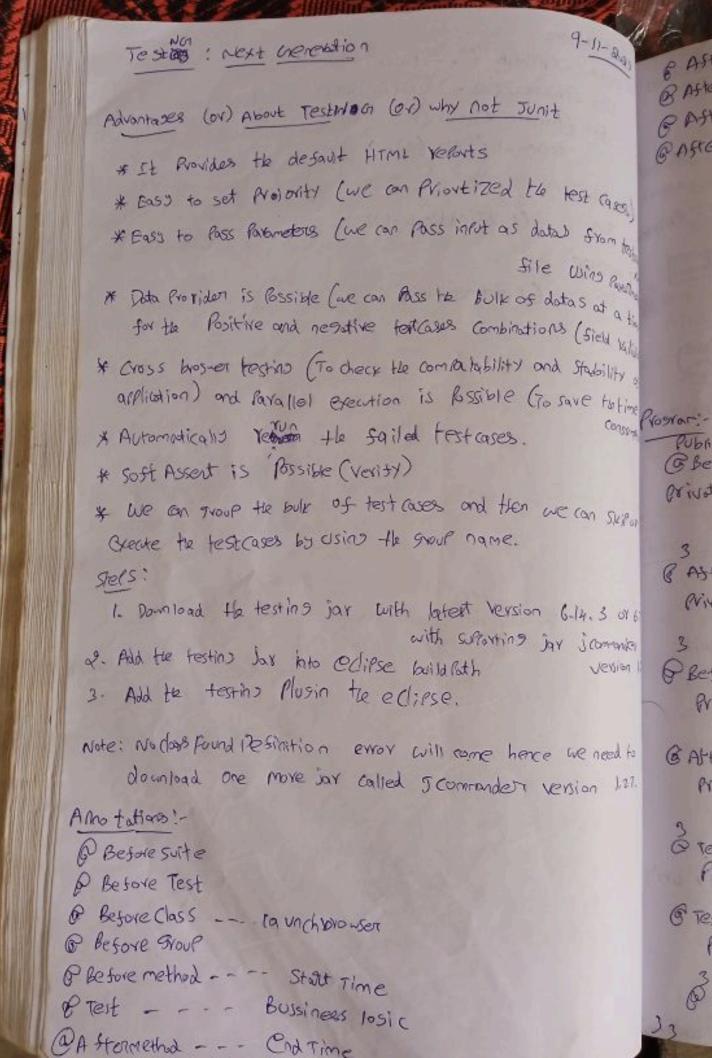
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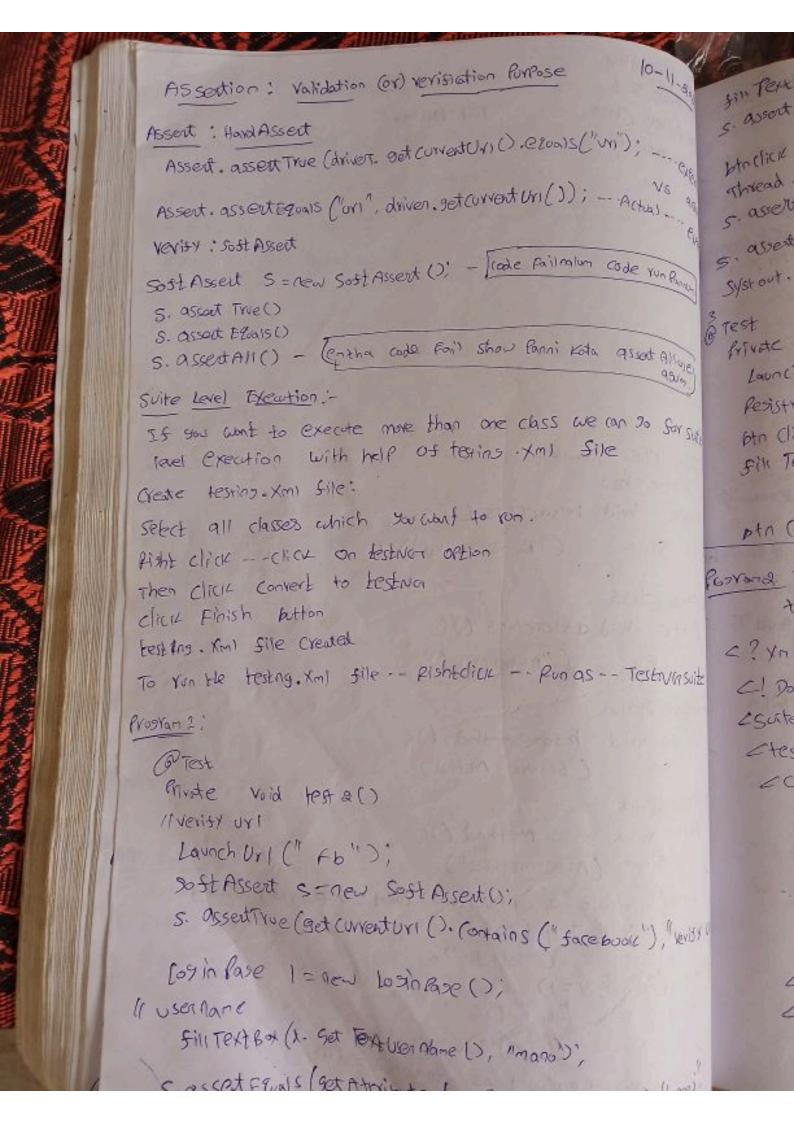
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Rerun failed testages: 1. manually 2. Automatically 1-marayy Project - Testartest Sailed .Xml - - - You the Sile it will You only Sail testcases Z.Automotially & with known Failed Testcases 5 Retys Analyzen: Intersace. retry()-m With outroom failed Testases Listeners ---- which is soins to the listen the sailed toplace from the suite file and send those top (950) into IAMotolion Transformer interface IAnostation Transformer: I trans-sorm() - -- -ITEST Amototion I get Returnalyzer - - - which is used to get the Said testor from litteres he set RetriAnglen - - - - which is used to redirect or sea the fills terases into IReturnation into HOSVan with known Java Public Class withknown implanents I Retry Analtzon & int mircount=0, MaxCount =5; Goverside Public poolean retry (stest resurt result) { is (min(out Imax(ovot)) min Count H veter false return true ;

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Rublic Class AL course give-stage = Development name = failed suite [sesayt suite]"> Grest void testas ()(Aerthod - catis' nones of aut terthicis sks out ("Test A"); MASSOS> Quat (vetro Anatasi-with Known . Class) achs name : "ove , Yeron. A"> Briste wid to ARUE 2methods> Linclude Mare: "tested2/7 gomes sone Sames (sister. in); [/methodo? exect assertine (sneet Boolean ()); 261955 > Sysout (Testal); reventerne. Xn) without known jaka Csuite name = "suite"> ablic class without known implements I Annotate Llisteness > Trasformie / listemen class mame = ors verun. Poreride withoutloun > /him Ribic void transform (I Test Anotation a, Class a. Set Retro Araizon (withman. Class);