vare machine using Vinware wookstation with 1cru, agb sum and,5 GB storage and canunas. Procedure: > Install the Withalksatton soffunce It has Vietualisation as type a. -) download an os frage file. => Start Vm ware a configure the harolwage selfing Install im and launch => Virtualissation extrypes of Vistualisation outcome: The Vm using ubunte smage has be configure and installed on a type 2 hyporix using von work station. output: Memory 29B Processor Harddisk 15 GB CD/DVD Auto NAT Network USB controller Present Display AU to

8. Dem: To create a virtual hard disc for the given virtual machine and allow accound 1096 Storage from HDD Frocedure: fastly founch the vm ware > under austomme handware radd stor.

> select appropriate storage type Finesh configuration er check to see if to hard disk is added an ym Outcome: An Virtual Randolisk has been added Ensible the Vm machine, Output: - Devices Memory 109B Processor 29B Harddisk 50 GB COLDYD Angfile C: Program Lites (x86) VM ware) Network NAT USB controller Present Sound card Auto Display Auto

Snapshot (reation 9 Am: 18 create a snapshot & test tosee of the deleted content are restored after scaloding. Procedure: => create a snapshot of the Vm a deleted few foles and sustore the snap shot by lounching the snap vous pon of = Shutdown the vm & create a clone of vm under manage vm. a open the Vmx fele from the doud location of vm & test the coned Version. The Snap Shot & clone of the Outcome: ym has been emplemented 9 fested. output: Snapshot manager: Devices Memory 26B Processoo 2 Harddisk 60GB Network Present Sound card Auto

10. Alm: To create a doning of um and test of loading the previous version I cloned my Procedure: > Go to Vm ware workstation - Create a Virtual machine with 296 Ram > Create a Virtual mochine with 496 \* The closing of VM Explanation: + After Goreasing the vm worstation For Postalling this we need to check when OSB Sustable > Then select the option as vm ware works -> After anstalling vm ware -> open create new Virtual machine > Then click above option as peryour regen ment > select specify dBK capacity & check the Compatibility output.

Memory 2GB
Processor 2
Hard disk 20GB
CDI DVID Auto
Network NAT
User Present
controller

Memory 29B
Procusor 2
Harddesk 209B
CD/DVD Auto
Network NAT
USB preunt
Controlly

Result:
The Virtual machine is created and also veraffed by giving outputs.

11. Alm: To along	Re hardware compatibility
of a vm ester b	y done / create a new
Virtual machine.	
Procedure:	
> 90 to Vm Ware	Workstation 2
> Right deck the	e Vm
	at a select 3 c s 1 g cli
next	a. c. c. c.
> click now viot	val desk
> Give the name of	Look ) lorde
	finish finish has to be choosed
> click next then.	
-> change the one	A Densin
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	desk capacity & compar
output	
memory 24B	memory 2GB
Procupor 2	Prayer
HarddBK 209B	Proussor g
COLDND Auto	Harddisk 40413
Nature 10	CD/DVD Auto
Adapter NAT	Network NAT
1 H B	adapter
Controller Present	CONTROller Present
Sound Auto control defect	Sousof
Sound Auto control defect	Control difert

12. Dim: To demostrate infrastoucture as a Servere by creating a resource group by using public doud service providers.

Procedure:

\* weate an account on agure

+ 90 to Resources & create a group

\* The necessary anto & create a VM WPHA Your IP and sername & Password.

\* Now Recurre the Votual machine

\* create a new windows Votval machine

Explanation:

I for Enstalling this we need to check which

> Select the option as who wave work & tation. > After clicking all the required options the COCK fingshig webste VM.

Output:

Hithesh Vertual machine

Connect Start Stop Restaut Delete Properties

Computer name Hithesh Linux VM generation 2 Host group None Host

Size - Standard VCPUS 8 GIB RAM

18. Dam: to create Infrastounture as a seeing by creating a visitual machine using a Aug Cloud Servece provider. Procedure: > Go to microsoft agure com - create a new account on recrosoft > Go to baste group & create Resource > Create a Virtual network to create to Vin machine Now create a V Rtual machine with IP & usernome & password. -> And your vestual machine of developed I NOW connect the Vertual machighe & password for vertual machine & download file to open new window vm alfort tithesh Virtualmochine Connect Start Restart Stop capture Properties Disk computer name : Hithesh OS disk : disk1 : LINUX Encoytion: Disable teast : None Data disk: 1 VM generation = 2 Agent Status : Ready

Risult: By using the give (Infrastruture as a service) ps created & verified Surveys

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Let. Afm: To demonstrate a Infrasturce as a sense by establishing remote connection. Laurch—the VI-Grage & Remote for your disktop.

Procedure:

> create an occount in azure

> Create a Viotual network for Virtual maches,

> Now Vistual machine of dweloped

> create an virmage, through console, created Viotual image by Specification

> Laurch the Vistual machine using emagy, Created. You can now access My remotely.

Remote Desktop

1) Remote access the Seewer

2) The computer turn off

3) the remote computer 93

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Resulf:

Thus the Virtual machine is created of servote connection is established.

probable or	The state of the s
15.	Afron: To dimonstrate Paas sewice e create
	Afron: To dimonstrate Paas Sewice & create configure a new VM Frage for cloud seening Procedure:
	Procedure:
	> Go to azore portal and Signan > create a new resource then search for web
	3 create a new resource then search for web
75	app & click create.
	- chose unreque nome for Web app Select
	20030810400
	> chose ranfime stack your wab app & working.
	Settings
	July and alaphan was appleade
	> you can deploy web application code to
	030re
	3 once can be done en Various methots leke
	All repositor from Virtual studio.
	> Deployment-Psotone your recrue a URL who
	You can occass the Webapp.
	petput
	and the same of th
	Recyclebin
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Result: thus the Vm & Vm & maye & Created & fested successfully.

16. Alm. Create a Simple wassite using any public Cloud Senice provider CAROTT I ACP HAWS and check public access ibility of stored file Procedure: -> GRU nessory Details an basic and tags on click review -> Go to Rusource group & create a resource grand Now the Resource group created go to ap Services & create webapplication. Resource group & Web oppname & sele > After enter the necessary things click the sulvew output: 4 > no Hethesh WEBARP Merosoft Azure Hey, Node developer Your app Service & up & running Result: Thus the web application of creat & Successfully executed.

azure helhesh webapp

Brown Stort Swap

1 Essentals

Resourcegroup: Hithushgroup Status: Stopped

Kocation: fast US

Web app

Name: azurehfthush

Robbish model: cade

Defaultomoin:

App seeme plan

08. KINUX

Alm: To dimonstrate storage as a Sewir Create & configure new un emage en any Public cloud providues. Procediore: > Go to Azure - In azure portal dick on create resources then search for Storage as Service aco and click create. > Select the appropriate performe & replical option and Specify once the Storage account 98 created navigar configure contains with unique name for container, Set the necess supload any fife & affer uploading the file you can get it public WRL. output: Trash Terminal Note pad

Result: TRUS The Storage as a Securice for Vry Amage is created & executed

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18. Conean Am: To Demonstrate a storage as a sons usting any public cloud Senvice prouse and check the public Accessibility Procedure: > Go to Azwe portal -> create a new resource then Search for Storage as a account & click create -> choose a unique name and select 18kg appropolate configuration > once the Storage Account & created the Create new container. -> Choose the unique name for container > After oploading file, click an expland Lile & View output: < > 0 evebcore. windows not = Renet Home About Services We offer Modern Solutions For Growing Business Get Started

Result: The storage as a servere was created and Successfully executed.

Result: Thus using the VM Pmage Rg created and success fully executed.

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19. Afin: To create a dalabase as a Servere Create and configure VM grage an any Cloud Service provider. Procedure: -> Go to Azwee -> Logen with your any of your Email > create a SQL Database and select the resource group cohiech was created. > Enfer the Sewer name and name of data base uniquely. I Networking Select allow azure Semple resources to access Semices. > In additional Settings Sample -> The Database P8 Deployed. Output: < > Q Home -> MPcrosoft SQL database, new database \$ cancel Or Refresh Your deployment is complete

Alm: To create a Sal storage Service q Perform a Bash query using any cloud Segurce Procedust: · Loger à nou create a Sample resource · Now Create new Service SQL Database à Select resource quoup which was created · Enter the Senvenname the name of Elalow 15 database. on networking select allow azcure Service & resources · In additional setting Select Simple Database is being created, Now create a table & try to rethive those database Using SQL OR/Querry Editor Quency Run create Table Mark field Varchar Kegno, Marker Enteger

Result: - The SAI 92 created & somer fully executed.

21. Dim: To perform the base configurations For Enstallation of Hadoop 18ke creation & Configuration the Houster and 38 H local h Procedure: For the first thing is setup the web on yours, for the following connands to proceed. & Sudo apt - add - repository Ppa: we buyd \$ sudo apt - got update 4 Sudo apt - get Postall oracle - gava & - forst 11 These Steps must be followed for enstall & sudo app genoup hadoop & sudo and user holuster Sudo Il Install SSH and create configuration & sudo apt - get Installs&h & Suduster \$ ssh - Key gh. +tasa - PX output:

Creation of datamode & name node 22. Alm: Install hodogs 2x and configure to nome node q data node. Procedure: \* Make Sure we have Prefalled Java onsyste of not then \$ Sudo apt update 4 Sudo apd Pristall fault - Idk > Download Hadoop ax package from Ste Website & extract it by using 4 cd 1- Sudo far. x zuf hadoop - x.x.x \$ Edit Basie files ou bash - profile to set necessary enfronment Vaoilables by \$ Sources ~ / bash re on figure hadoop directory & modify the Configuere tiles. \$ cd Hadoop - Home [ etc [ hadoop \$ Sudo nano hadoop -envish Sudo name core -Site. XML \* Add Configuration Inside \* HDFS Sife ", XML \$ at \$ flome [: 8sh: id - rsa. 12ub >> Home/sh \* Clek ISSMWOSK autosiz es & SEM Local host & Install hadoop 4 Extrat Hadoop 2.7.2

4 sudo fax x V z F hadoop 2.7.2

11 1 reate a folder "hadoop " Andales / lacal

4 sudo MK disk-pluses / hadoop.

oulput:

Result:
The name node & datarode & created & executed.

the first of the second of

Am: B create a hadrop 22 & test the may suduce platform with hadoop. Procedure: \* open ternsmal \$ su havset Password A start of s and map reduce 8Pte 4 cd/ USS/ laal / hadoop / hadoop 2.7. 2 16in & Start -dfs- sh \$ start - youn - sh \* check hadoops through webUI https: 11 Local host: 8088 http: 11 Local host: 500 70 \* Local new terminal \$ cd duktop 4 mxdit moutdata of cd suport & echo Han hello I cat >shello-txt G back bold terminal \$ hodoop to -copy from local / home ( Desk) Enputdata/ hello. tat I checking hello tet name noch \* Down Load and open edleps & by crath a new workspace.

Alm: To Laurich hadrop ox 9 perform map reduce program for word count Procedure: & open terminal \* Scholoser & password \* start des & your Securicus od / col / cocal / hadrojo / hadrojo 27.2/6 A start - als sh 4 start - log Prish 4 J.p.s \*check hadogs en web UI 4670 to browser https: al Local host 500 70 Etfoll Local host: 8088 \* open nene from gral & col Desktop of mkdif empotdata 4 cd apput dala \$ echo Hal, Hello & cat >> Hello forf \* Go to the old trompnal & hadoop for from Local Shome I ha duttop Pomput data

output:

Result: This the Mapreduce program and word count problem is created & executed.

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	Procedur	re:		
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Procedure:			T1.09405
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-> Click the done	, v		
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o after falling	done u	Sthe option	n8.
Result: The Web 33 created & - Octput	non la	cook books	Sunt
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16/8 Agm: create à web app for amplopyée pay roll System.
roll System.
Procedure:
· Open the Zohoapp
. It asks for Suthentleation
coentor, app etc applications Pike
· click coeafor
· Tron it asks choose Template.
· choose template based on your need.
· choose template of your application.
· otherwege choose by our own option.
· they are: Name
· Id, email, phno etc
· fex the ditails & arek done option
Next give the Enput According to you.
as Apple Choose output with Enport
Result: The webapp for employee payroll
system is created & then verified
Success fully 6
output:
Name: Basicpay [ ]
email: DA
Addres: CCA
Basic pay:
Salary:

16/08 Chidant Information
Alos Student Information for Sholony 10/08 On formation System.
In formation system.
Procedure:
Popen the Zoho. com
* Log en to 20 ho & give IPHE email >
> Now & provides ophors to crusse
-) have creator Ps the first we
con Access our data.
= Next It uses tette based on your applies
-) for details that are given on temptals
-) for details that are given on temptals after felling cutable click done of the
agter felling canno che se
=> goven Enputs According to you were App
& check with enpot whether of the
selicted ornot
Result: The Web app for Student Informan system & created & Verified.
enden ga created & Verified
alput:
Name:
Registration Number:
year of addmission:
Sub-form /
Subject name Percent
+ Add new
( vell)

16/08 - Hotel reservation
16/08 Hatel reservation 5 Am: creale o App for Hotel reservation 34 Hem.
Procedure:
a open Zoho opp
11 raks 120gm Pstong
Enter mall & passuord. It shows creator chek on it.
2 go to New collection where we have to
create
3 choose the template which is suffabre for
your FIPP
=) In template shows options which we
have to fall
Altributes: -> Hotel game
> date, leaving date
-) Jate, leaving date
> fru detarls & click done
-> Next gare Gujata According to youare
-> Next give anjuta According to youare Application & check out the Working,
Result: The webapp for Hotel ruservation
system is verified output
Name:
Mobileno:
Checkin:
No of rooms

17/08 6. Aim: Coeate + Re Vm wore applation a name-Procedure: at first we should weate Vm ware wood Station. => Then open of show options. > Cliek on "Rome" => directly show the options on screen · createa new virtual > open > mach ine > click on create new = It asks chose the Virtual machine => It shows gust operation system Installa CIPCKNEXT -) -10 select the operation · maros of f · Linux · Vmware ·Other -> then allocte memory choose netwood >) Type & select disk type => Vm cosul be created with following procedure f

vare machine using Vinware wookstation with 1cru, agb sum and,5 GB storage and canunas. Procedure: > Install the Withalksatton soffunce It has Vietualisation as type a. -) download an os frage file. => Start Vm ware a configure the harolwage selfing Install im and launch => Virtualissation extrypes of Vistualisation outcome: The Vm using ubunte smage has be configure and installed on a type 2 hyporix using von work station. output: Memory 29B Processor Harddisk 15 GB CD/DVD Auto NAT Network USB controller Present Display AU to

Snapshot (reation 9 Am: 18 create a snapshot & test to see of the deleted content are restored after scaloding. Procedure: => create a snapshot of the Vm a deleted few foles and sustore the snap shot by lounching the snap vous pon of = Shutdown the vm & create a clone of vm under manage vm. a open the Vmx fele from the doud location of vm & test the coned Version. The Snap Shot & clone of the Outcome: ym has been emplemented 9 fested. output: Snapshot manager: Devices Memory 26B Processoo 2 Harddisk 60GB Network Present Sound card Auto

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Memory 2GB
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Result:
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of a vm ester b	y done / create a new
Virtual machine.	
Procedure:	
> 90 to Vm Ware	Workstation 2
> Right deck the	e Vm
	at a select 3 c s 1 g cli
next	a. c. c. c.
> click now viot	val desk
> Give the name of	Leoke ) lorde
	finish finish has to be choosed
> click next then.	
-> change the one	A Densin
-> change the no.	of processos
- na late of conf	Datibelity & changed.
	desk capacity & compar
output	
memory 24B	memory 2GB
Procupor 2	Prayer
HarddBK 209B	Proussor g
COLDND Auto	Harddisk 40413
Nature 10	CD/DVD Auto
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Controller Present	CONTROller Present
Sound Auto control defect	Sousof
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> Select the option as who wave work & tation. > After clicking all the required options the COCK fingshig webste VM.

Output:

Hithesh Vertual machine

Connect Start Stop Restaut Delete Properties

Computer name Hithesh Linux VM generation 2 Host group None Host

Size - Standard VCPUS 8 GIB RAM

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Risult: By using the give (Infrastruture as a service) ps created & verified Surveys

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Let. Afm: To demonstrate a Infrasturce as a sense by establishing remote connection. Laurch—the VI-Grage & Remote for your disktop.

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Resulf:

Thus the Virtual machine is created of servote connection is established.

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15.	Afron: To dimonstrate Paas sewice e create
	Afron: To dimonstrate Paas Sewice & create configure a new VM Frage for cloud seening Procedure:
	Procedure:
	> Go to azore portal and Signan > create a new resource then search for web
	3 create a new resource then search for web
75	app & click create.
	- chose unreque nome for Web app Select
	20030810400
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	> Deployment-Psotone your recrue a URL who
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Result: thus the Vm & Vm & maye & Created & fested successfully.

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azure helhesh webapp

Brown Stort Swap

1 Essentals

Resourcegroup: Hithushgroup Status: Stopped

Kocation: fast US

Web app

Name: azurehfthush

Robbish model: cade

Defaultomoin:

App seeme plan

08. KINUX

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Result: TRUS The Storage as a Securice for Vry Amage is created & executed

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18. Conean Am: To Demonstrate a storage as a sons usting any public cloud Senvice prouse and check the public Accessibility Procedure: > Go to Azwe portal -> create a new resource then Search for Storage as a account & click create -> choose a unique name and select 18kg appropolate configuration > once the Storage Account & created the Create new container. -> Choose the unique name for container > After oploading file, click an expland Lile & View output: < > 0 evebcore. windows not = Renet Home About Services We offer Modern Solutions For Growing Business Get Started

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Result: Thus using the VM Pmage Rg created and success fully executed.

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Alm: To create a Sal storage Service q Perform a Bash query using any cloud Segurce Procedust: · Loger à nou create a Sample resource · Now Create new Service SQL Database à Select resource quoup which was created · Enter the Senvenname the name of Elalow 15 database. on networking select allow azcure Service & resources · In additional setting Select Simple Database is being created, Now create a table & try to rethive those database Using SQL OR/Querry Editor Quency Run create Table Mark field Varchar Kegno, Marker Enteger

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21. Dim: To perform the base configurations For Enstallation of Hadoop 18ke creation & Configuration the Houster and 38 H local h Procedure: For the first thing is setup the web on yours, for the following connands to proceed. & Sudo apt - add - repository Ppa: we buyd \$ sudo apt - got update 4 Sudo apt - get Postall oracle - gava & - forst 11 These Steps must be followed for enstall & sudo app genoup hadoop & sudo and user holuster Sudo Il Install SSH and create configuration & sudo apt - get Installs&h & Suduster \$ ssh - Key gh. +tasa - PX output:

Creation of datamode & name node 22. Alm: Install hodogs 2x and configure to nome node q data node. Procedure: \* Make Sure we have Prefalled Java onsyste of not then \$ Sudo apt update 4 Sudo apd Pristall fault - Idk > Download Hadoop ax package from Ste Website & extract it by using 4 cd 1- Sudo far. x zuf hadoop - x.x.x \$ Edit Basie files ou bash - profile to set necessary enfronment Vaoilables by \$ Sources ~ / bash re on figure hadoop directory & modify the Configuere tiles. \$ cd Hadoop - Home [ etc [ hadoop \$ Sudo nano hadoop -envish sudo name core -site. XML \* Add Configuration Inside \* HDFS Sife ", XML \$ at \$ flome [: 8sh: id - rsa. 12ub >> Home/sh \* Clek ISSMWOSK autosiz es & SEM Local host & Install hadoop 4 Extrat Hadoop 2.7.2

4 sudo fax x V z F hadoop 2.7.2

11 1 reate a folder "hadoop " Andales / lacal

4 sudo MK disk-pluses / hadoop.

oulput:

Result:
The name node & datarode & created & executed.

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Am: B create a hadrop 22 & test the may suduce platform with hadoop. Procedure: \* open ternsmal \$ su havset Password A start of s and map reduce 8Pte 4 cd/ USS/ laal / hadoop / hadoop 2.7. 2 16in & Start -dfs- sh \$ start - youn - sh \* check hadoops through webUI https: 11 Local host: 8088 http: 11 Local host: 500 70 \* Local new terminal \$ cd duktop 4 mxdit moutdata of cd suport & echo Han hello I cat >shello-txt G back bold terminal \$ hodoop to -copy from local / home ( Desk) Enputdata/ hello. tat I checking hello tet name noch \* Down Load and open edleps & by crath a new workspace.

Alm: To Laurich hadrop ox 9 perform map reduce program for word count Procedure: & open terminal \* Scholoser & password \* start des & your Securicus od / col / cocal / hadrojo / hadrojo 27.2/6 A start - als sh 4 start - log Prish 4 J.p.s \*check hadogs en web UI 4670 to browser https: al Local host 500 70 Etfoll Local host: 8088 \* open nene from gral & col Desktop of mkdif empotdata 4 cd apput dala \$ echo Hal, Hello & cat >> Hello forf \* Go to the old trompnal & hadoop for from Local Shome I ha duttop Pomput data

output:

Result: This the Mapreduce program and word count problem is created & executed.

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16/8 Agm: create à web app for amplopyée pay roll System.
roll System.
Procedure:
· Open the Zohoapp
. It asks for Authentication
coentor, app etc applications Pike
· click coeafor
· Tron it asks choose Template.
· choose template based on your need.
· choose template of your application.
· otherwege choose by our own option.
· they are: Name
· Id, email, phno etc
· fex the ditails & arek done option
Next give the Enput According to you.
as Apple Choose output with Enport
Result: The webapp for employee payroll
system is created & then verified
Success fully 6
output:
Name: Basicpay [ ]
email: DA
Addres: CCA
Basic pay:
Salary:

16/08 Chidant Information
Alos Student Information for Sholony 10/08 On formation System.
In formation system.
Procedure:
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agter felling canno che se
=> goven Enputs According to you are App
& check with enpot whether of the
selicted ornot
Result: The Web app for Student Informan system & created & Verified.
enden ga created & Verified
alput:
Name:
Registration Number:
year of addmission:
Sub-form /
Subject name Percent
+ Add new
( vell)