				Remarks
1.	16-10-23	Car Booking reservation	1	
2.	16/10/23	Flight reservation	3	
3.	16/10/23	property Buying and Renting	5	
4.	16/10/23	Library Book reservation system	7	
5.	16/10/23	Basic pay role system	9	
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9.	17/10/23	create cloning and snapshot	17	
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11.	17/10/23	create a Virtual machine with 1 CPU, 15 GB storage using type 2 hypervisor	21	
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13.	18/10/23	create microsoft azure account and resource	25	
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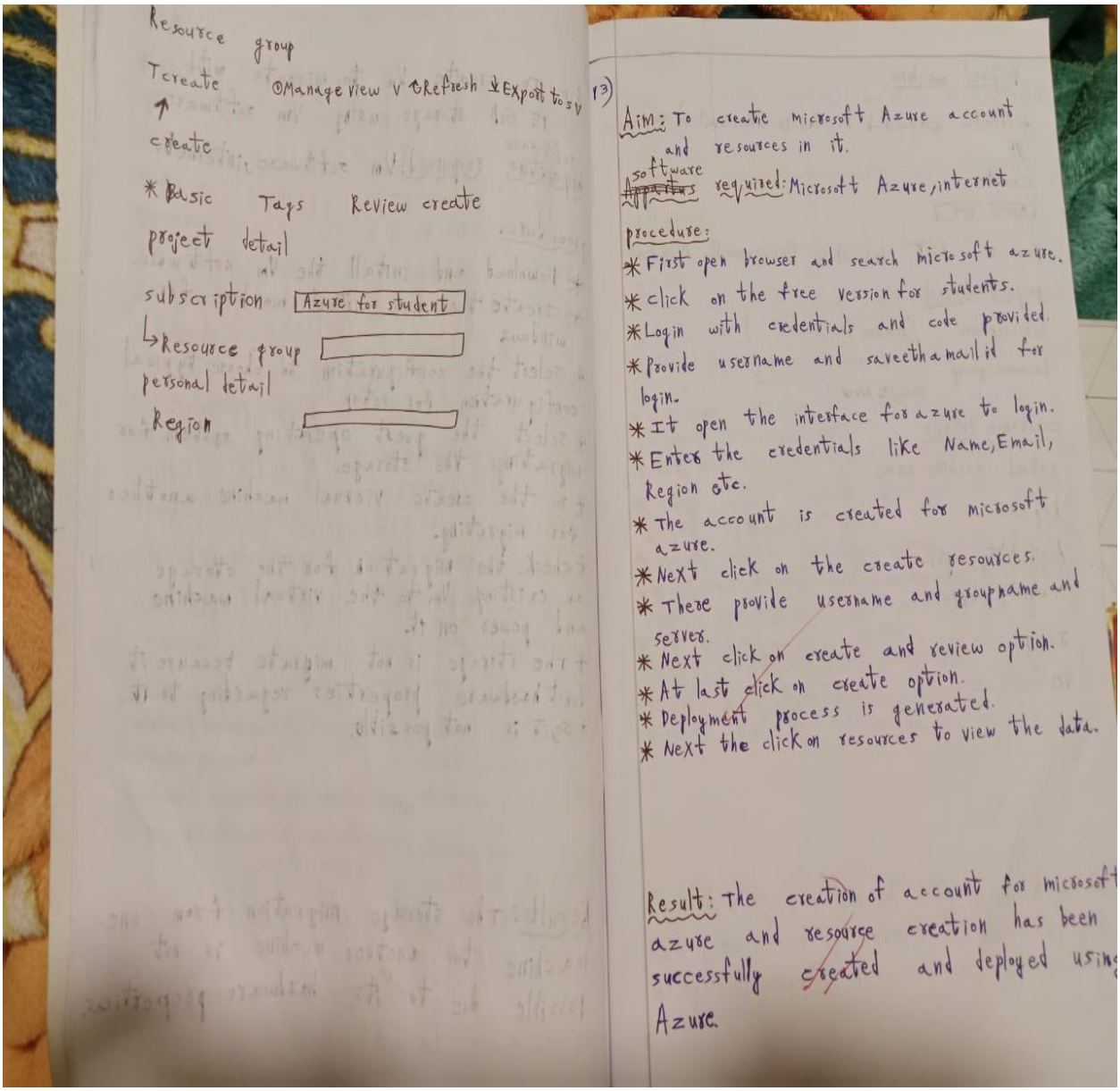
20.	19/10/23	To perform map reduce program using Hadoop	39	

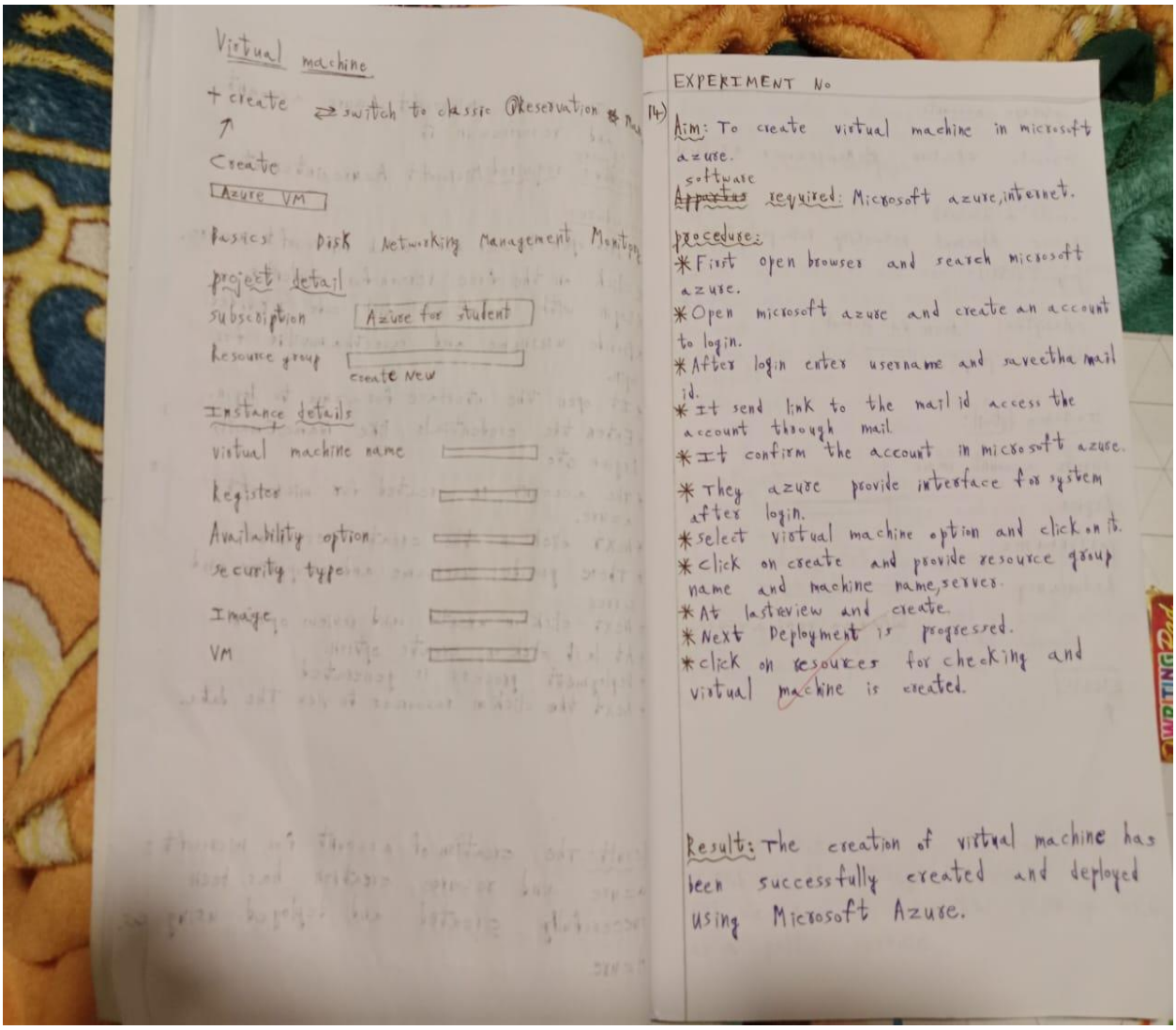
EXPERIMENT NO:13

13.To create a Microsoft azure account and resources



EXPERIMENT NO:14

14.To create a virtual machine in Microsoft azure



Virtual machine

+ create ⇄ switch to classic Reservation

Create

Azure VM

Basics Disk Networking Management Monitor

project detail

subscription Azure for student

Resource group create new

Instance details

virtual machine name

Register

Availability option

security type

Image

VM

EXPERIMENT No

14)

Aim: To create virtual machine in microsoft azure.

~~Apparatus~~ software required: Microsoft azure, internet.

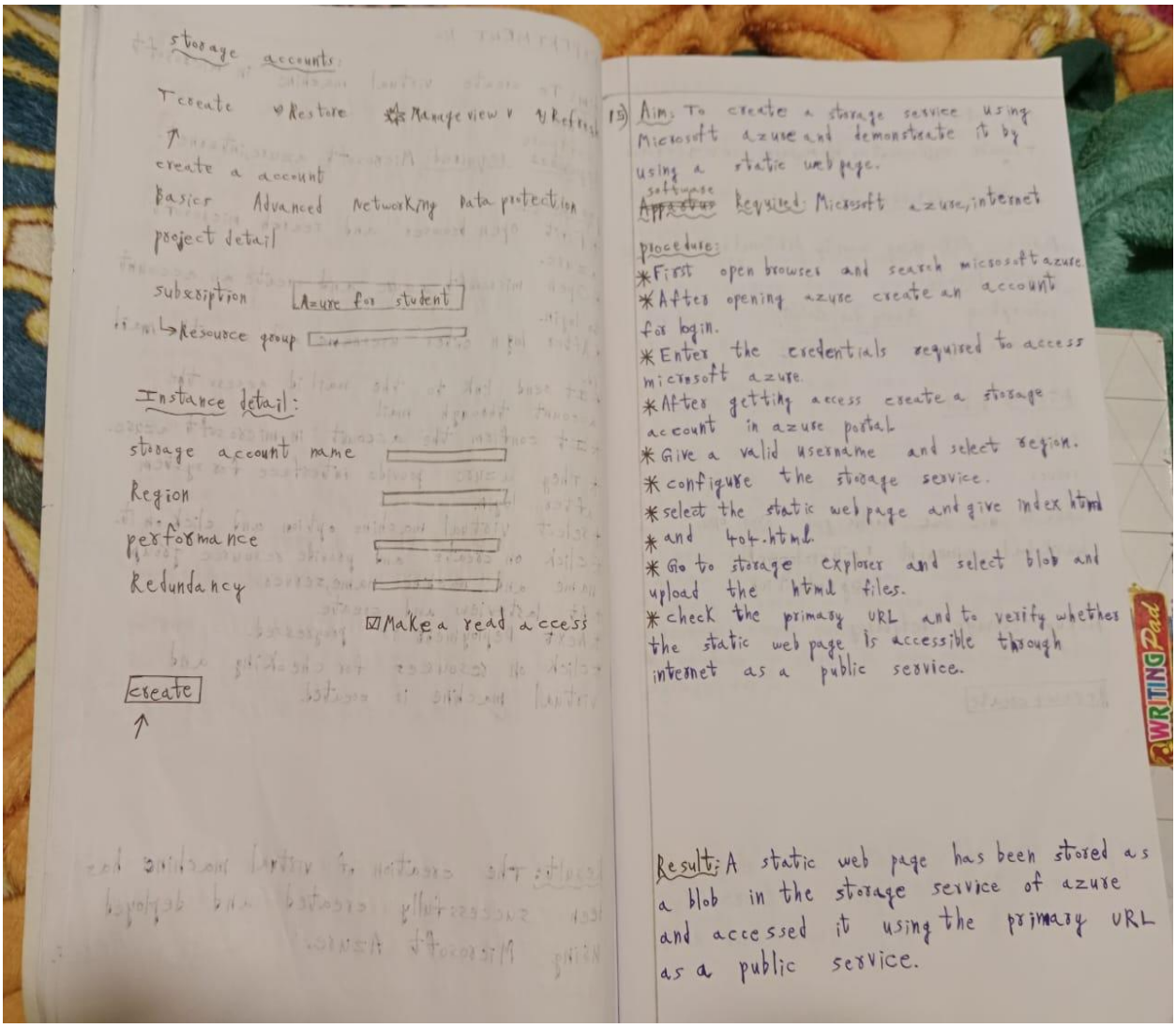
procedure:

* First open browser and search microsoft azure.
* Open microsoft azure and create an account to login.
* After login enter username and sareetha mail id.
* It send link to the mail id access the account through mail
* It confirm the account in microsoft azure.
* They azure provide interface for system after login.
* select virtual machine option and click on it.
* click on create and provide resource group name and machine name, serves.
* At last review and create.
* Next Deployment is progressed.
* click on resources for checking and virtual machine is created.

Result: The creation of virtual machine has been successfully created and deployed using Microsoft Azure.

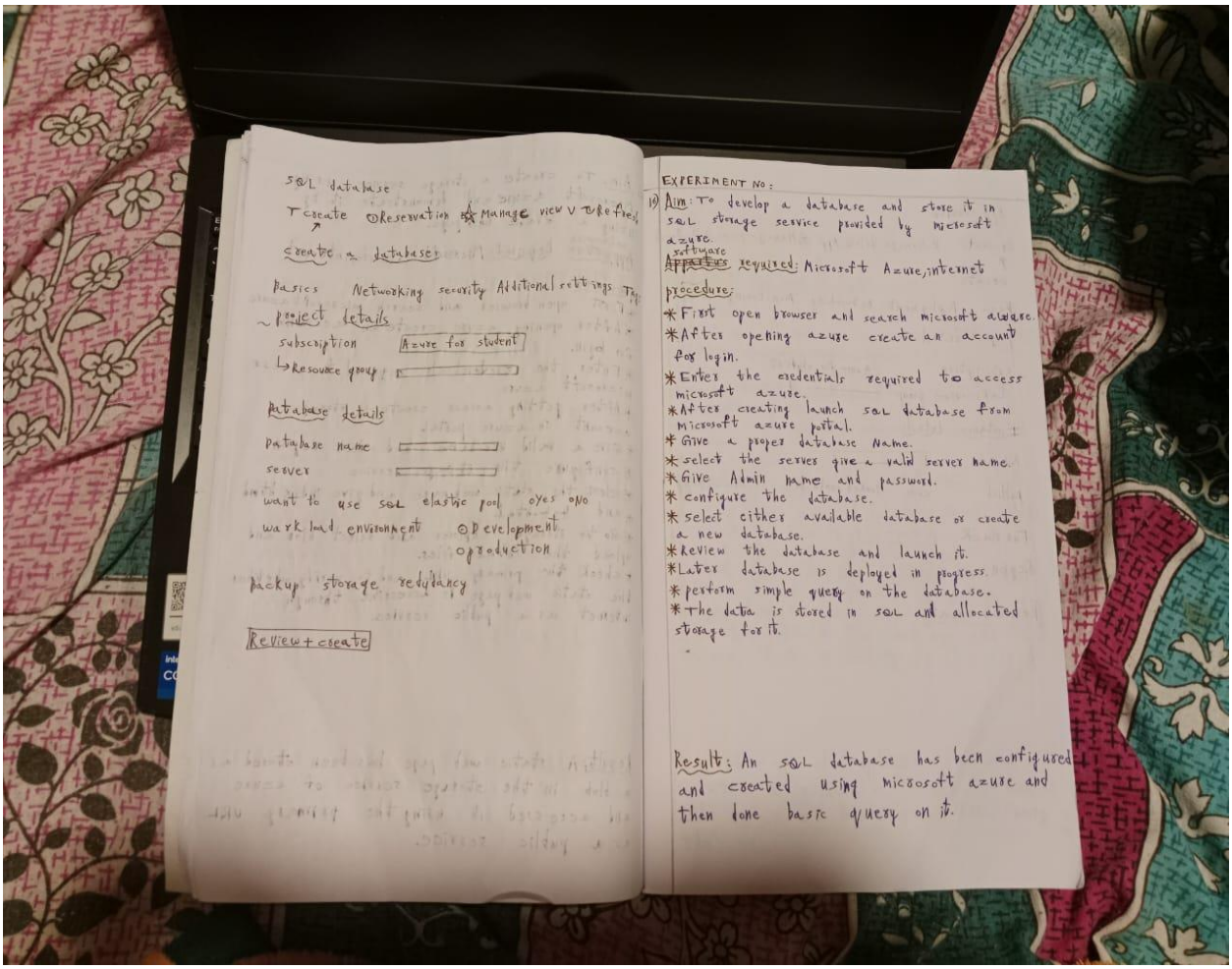
EXPERIMENT NO:15

15.To create a storage service using Microsoft azure



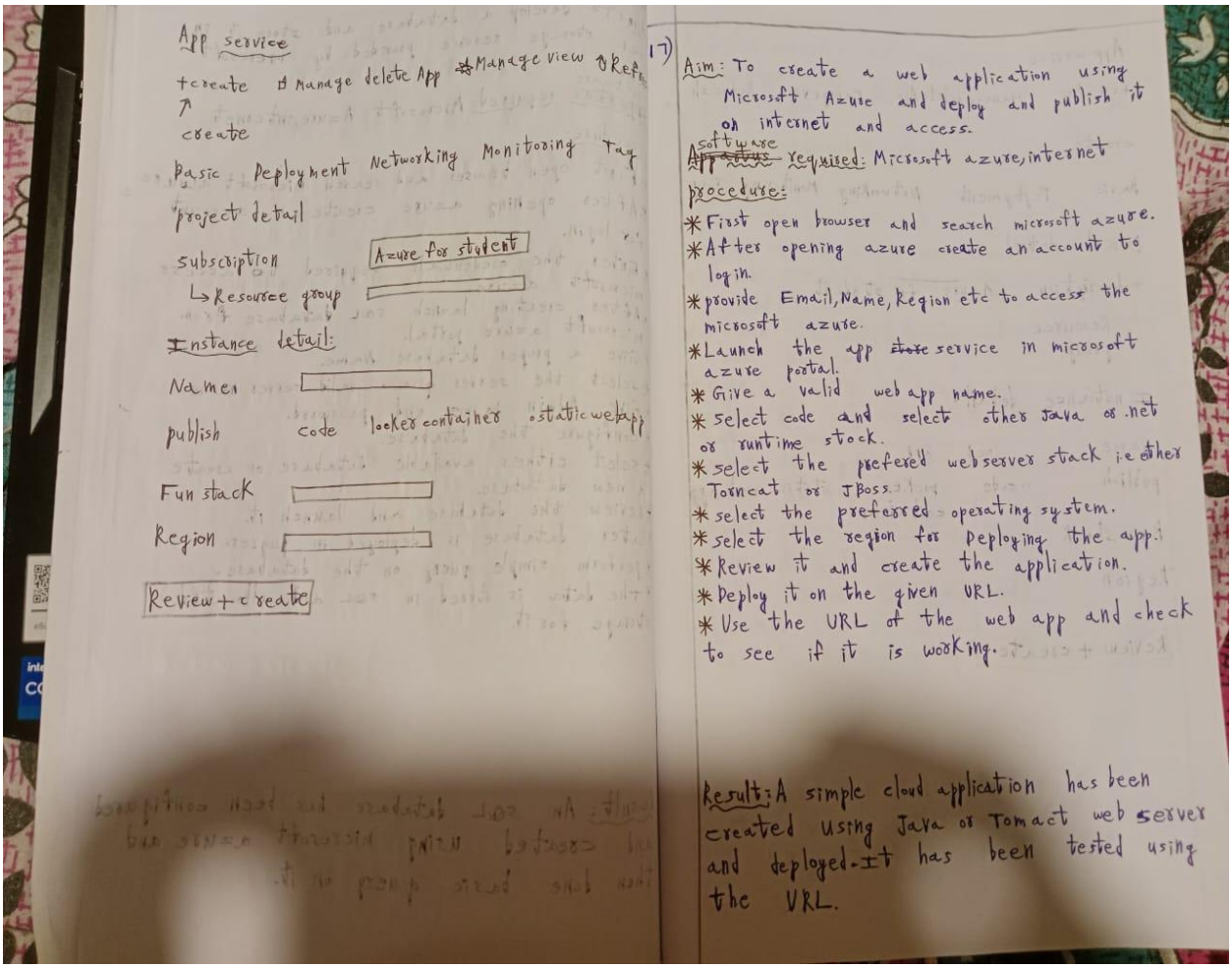
EXPERIMENT NO:16

16.To develop a database and store it in SQL storage using Microsoft azure



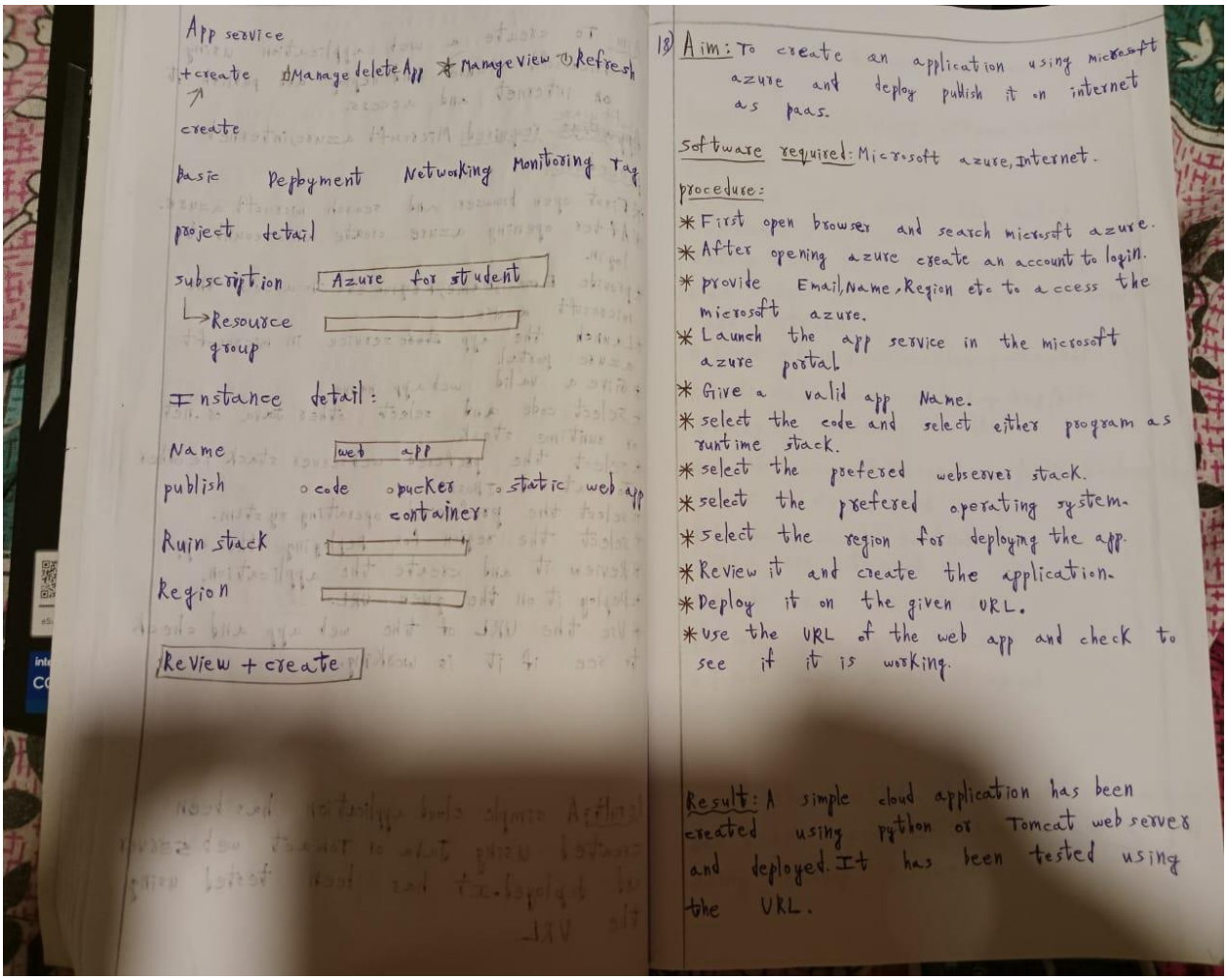
EXPERIMENT NO:17

17.To create a web application using Microsoft azure



EXPERIMENT NO:18

18.To create an application using Microsoft azure



App service

+create Manage delete App Manage view Refresh

create

Basic Deployment Networking Monitoring Tag

project detail

subscription Azure for student

Resource group

Instance detail:

Name web app

publish code docker container static web app

Run stack

Region

Review + create

18 Aim: To create an application using microsoft azure and deploy publish it on internet as paas.

Software required: Microsoft azure, Internet.

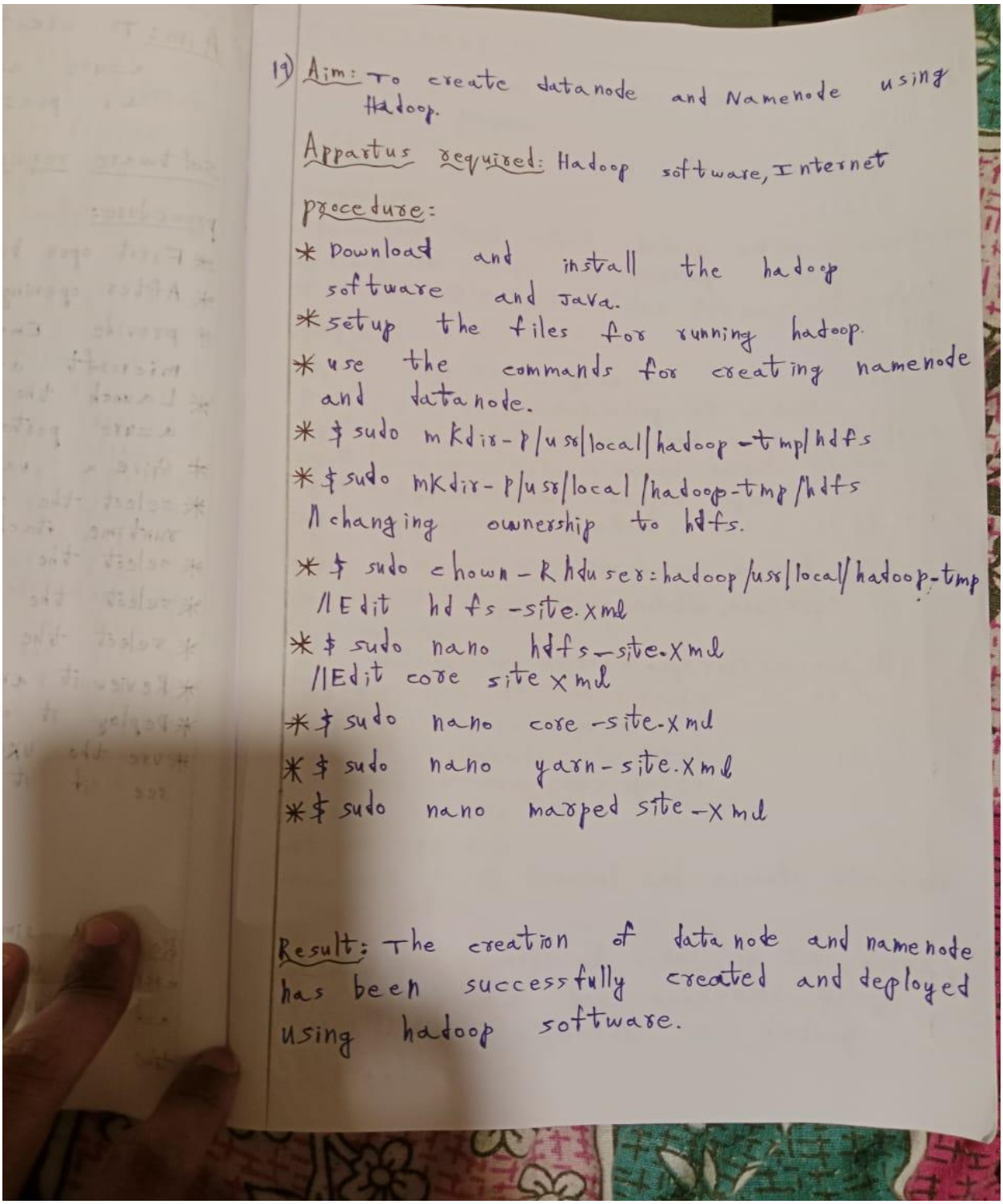
procedure:

* First open browser and search microsoft azure.
* After opening azure create an account to login.
* provide Email, Name, Region etc to access the microsoft azure.
* Launch the app service in the microsoft azure portal.
* Give a valid app Name.
* select the code and select either program as runtime stack.
* select the prefered webserver stack.
* select the prefered operating system.
* select the region for deploying the app.
* Review it and create the application.
* Deploy it on the given URL.
* use the URL of the web app and check to see if it is working.

Result: A simple cloud application has been created using python or Tomcat web server and deployed. It has been tested using the URL.

EXPERIMENT NO:19

19.To create a Data node and name node in Hadoop architecture



19) Aim: To create datanode and Namenode using Hadoop.

Appartus required: Hadoop software, Internet

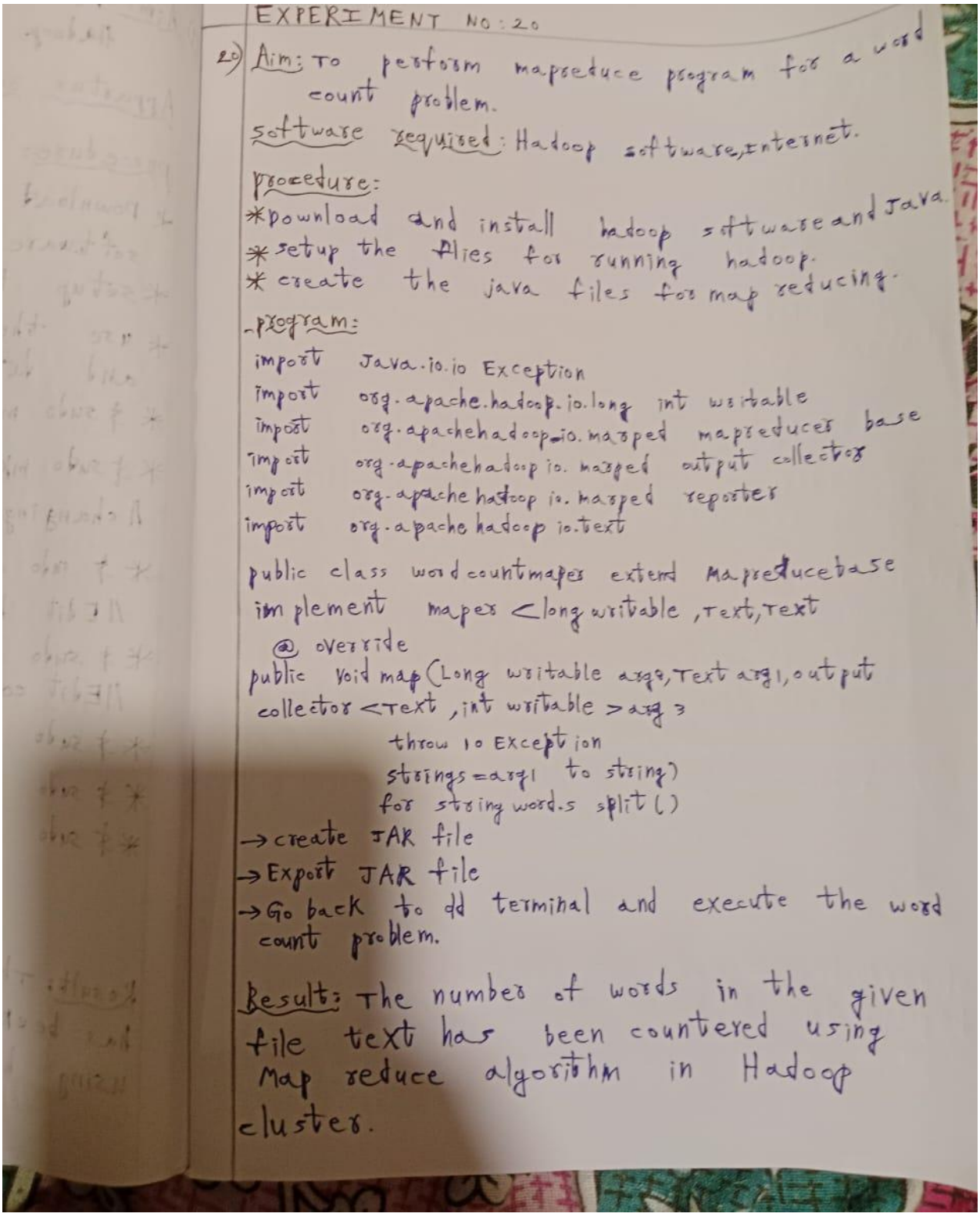
procedure:

* Download and install the hadoop software and java.
* setup the files for running hadoop.
* use the commands for creating namenode and datanode.
* $ sudo mkdir -p /usr/local/hadoop -tmp/hdfs
* $ sudo mKdir -p /usr/local /hadoop-tmp /hdfs
  // changing ownership to hdfs.
* $ sudo chown -R hduser:hadoop /usr/local/hadoop-tmp
  //Edit hdfs-site.xml
* $ sudo nano hdfs-site.xml
  //Edit core site xml
* $ sudo nano core -site.xml
* $ sudo nano yarn-site.xml
* $ sudo nano marped site -xml

Result: The creation of data node and name node has been successfully created and deployed using hadoop software.

EXPERIMENT NO:20

20.To create a map reduce program in java using Hadoop



EXPERIMENT NO: 20

20) Aim: To perform mapreduce program for a word count problem.

Software required: Hadoop software, Internet.

Procedure:

* Download and install hadoop software and Java.
* setup the files for running hadoop.
* create the java files for map reducing.

Program:

```
import java.io.IOException
import org.apache.hadoop.io.LongWritable
import org.apachehadoop.io.mapred mapreducer base
import org.apachehadoop.io.mapred output collector
import org.apache hadoop.io.mapred reporter
import org.apache hadoop.io.text

public class wordcountmaper extend mapreducebase
implement maper <long writable, Text, Text
    @ override
public void map (Long writable arg0, Text arg1, output
collector <Text, int writable > arg 3
                throw IO Exception
                strings = arg1 to string)
                for string word.s split ()
```

→ create JAR file
→ Export JAR file
→ Go back to dd terminal and execute the word count problem.

Result: The number of words in the given file text has been countered using map reduce algorithm in Hadoop cluster.