
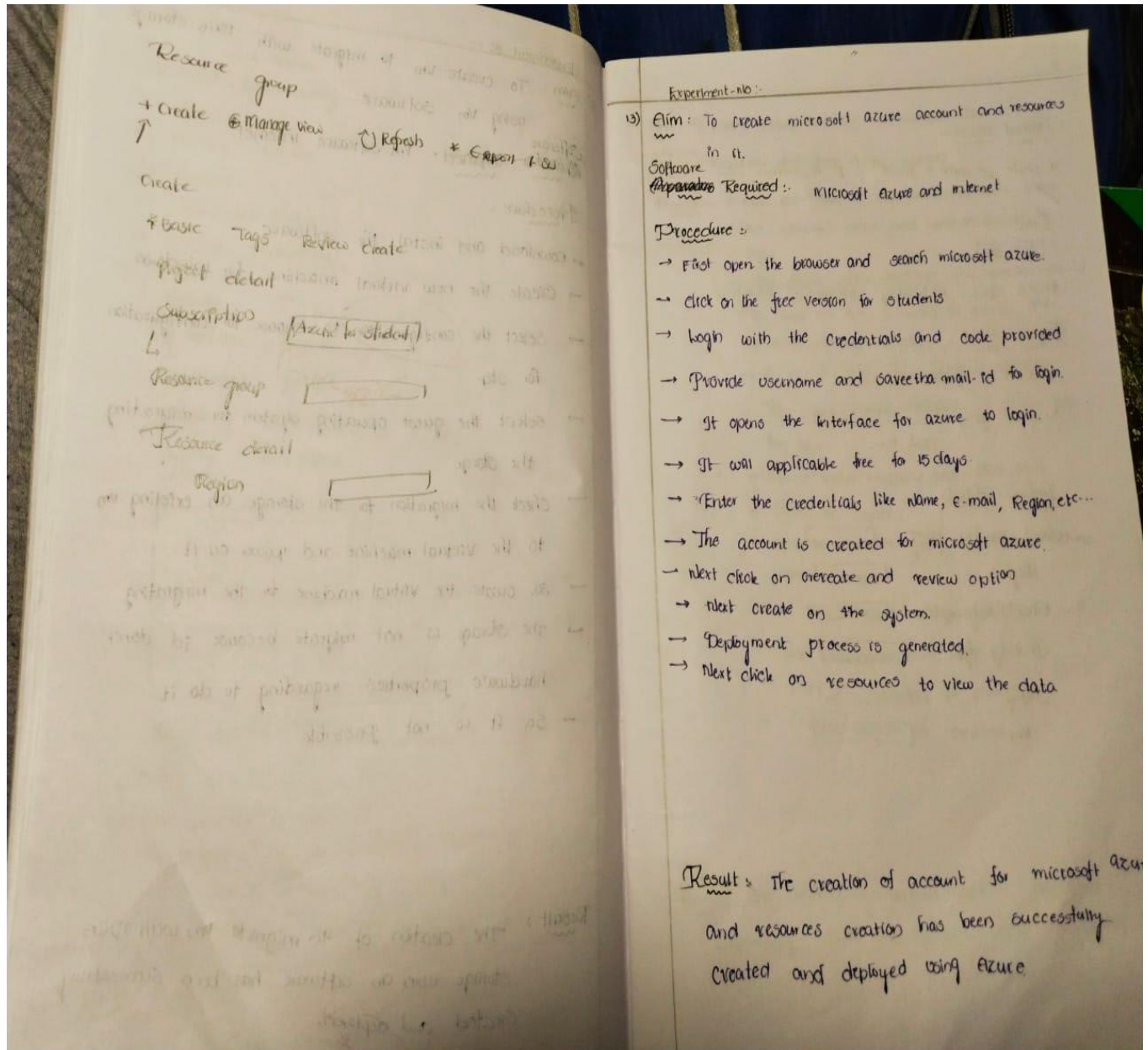


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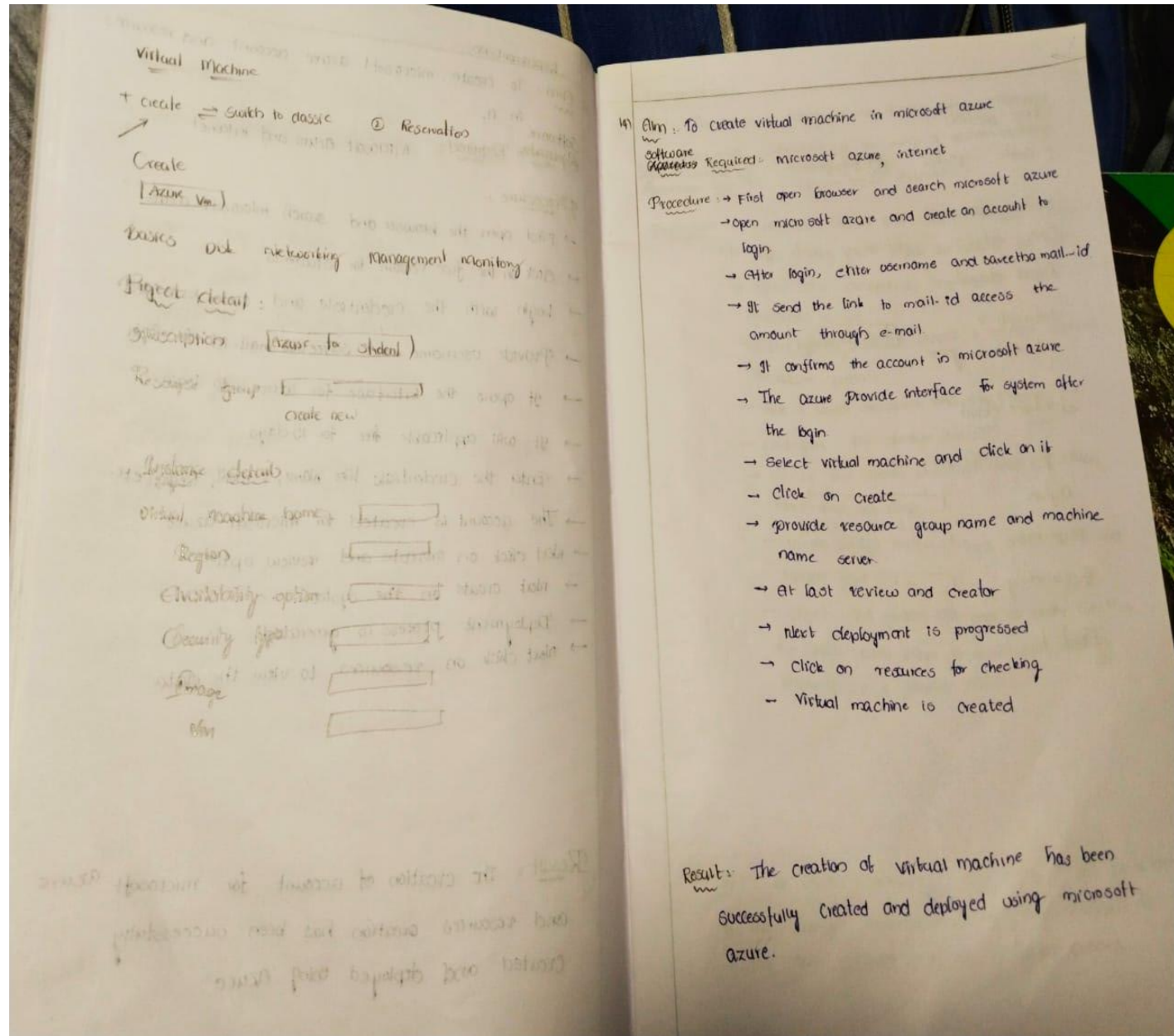
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13. To create a Microsoft azure account and resources



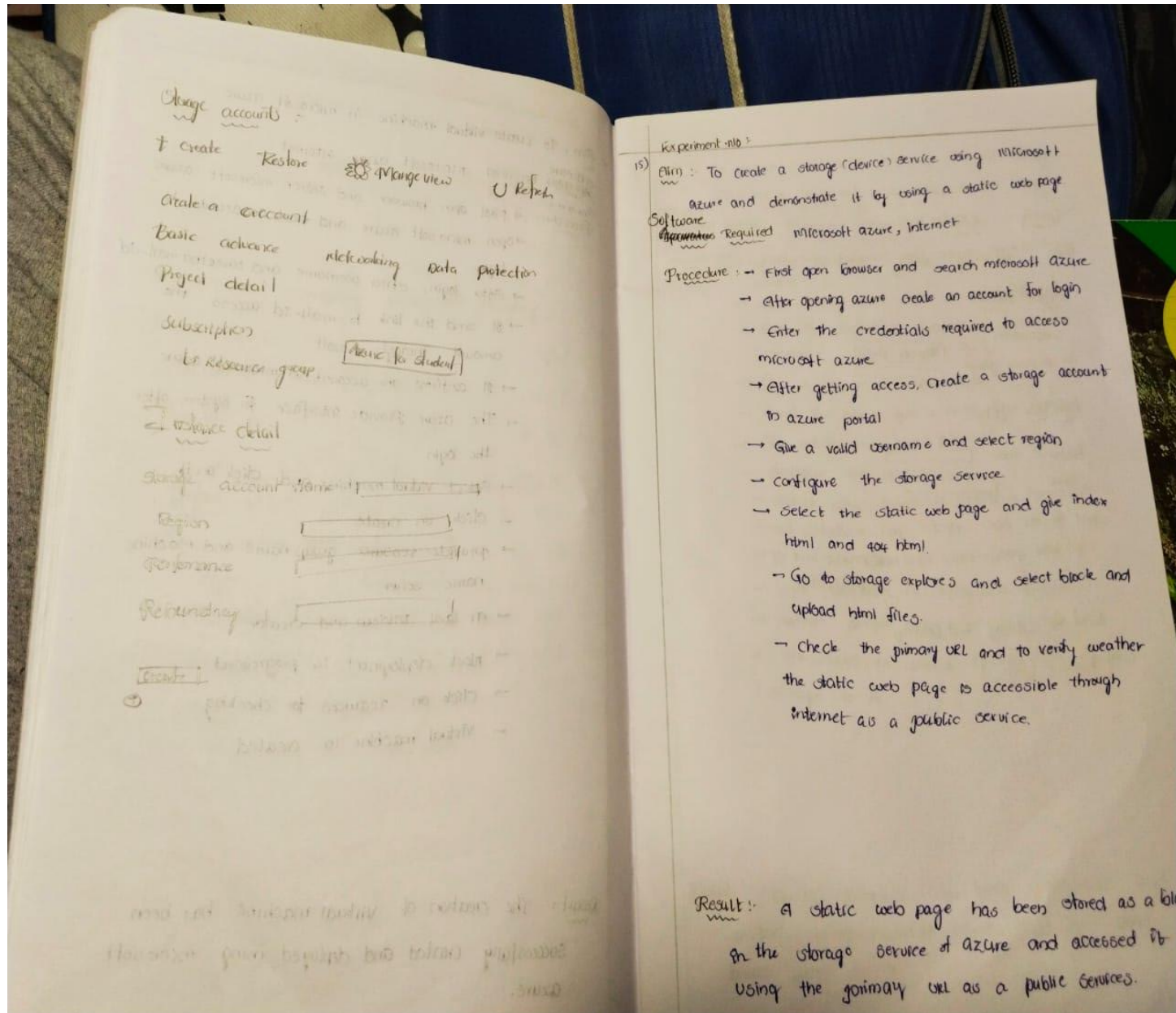
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14.To create a virtual machine in Microsoft azure



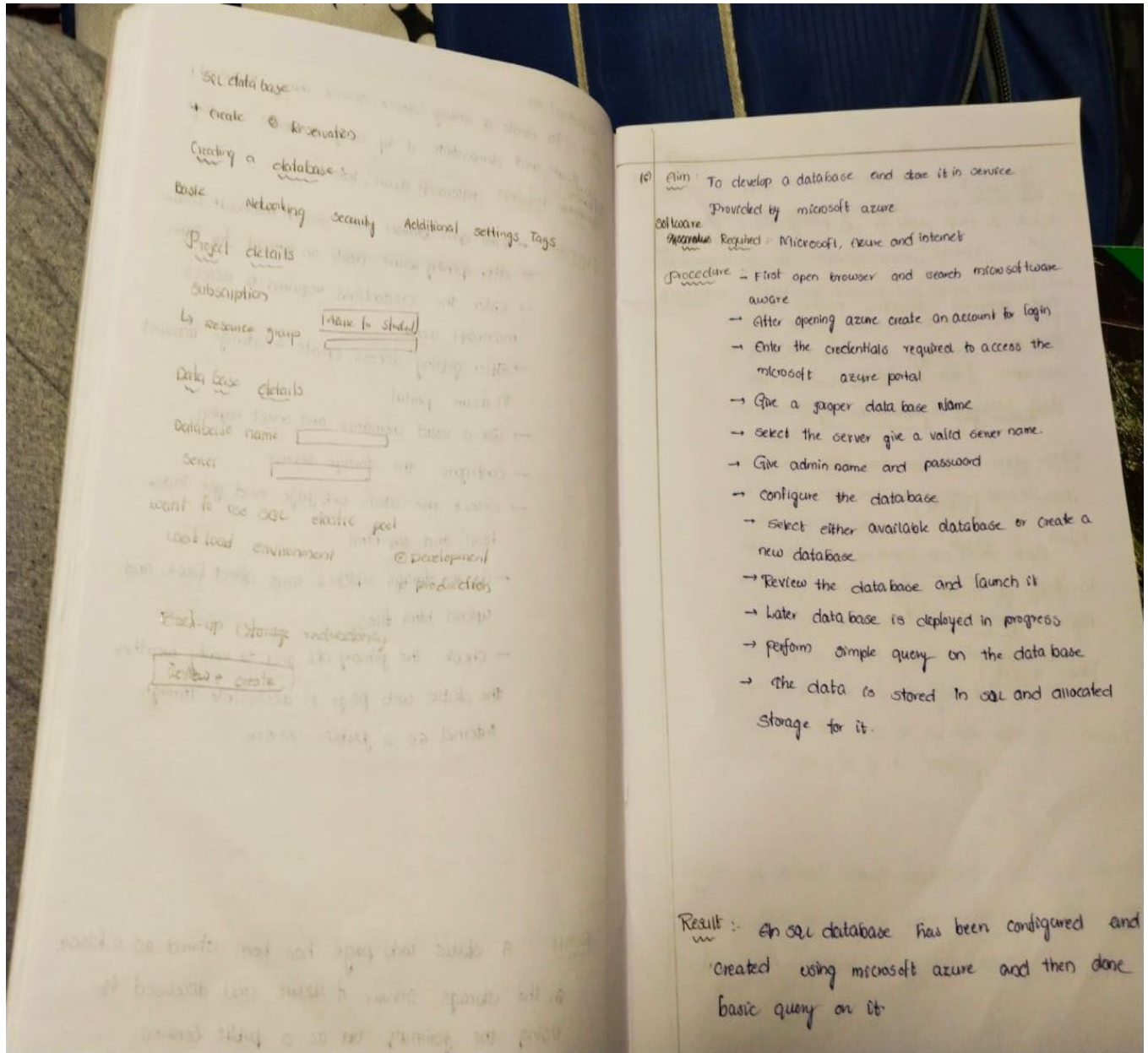
Experiment No:15

15. To create a storage service using Microsoft azure



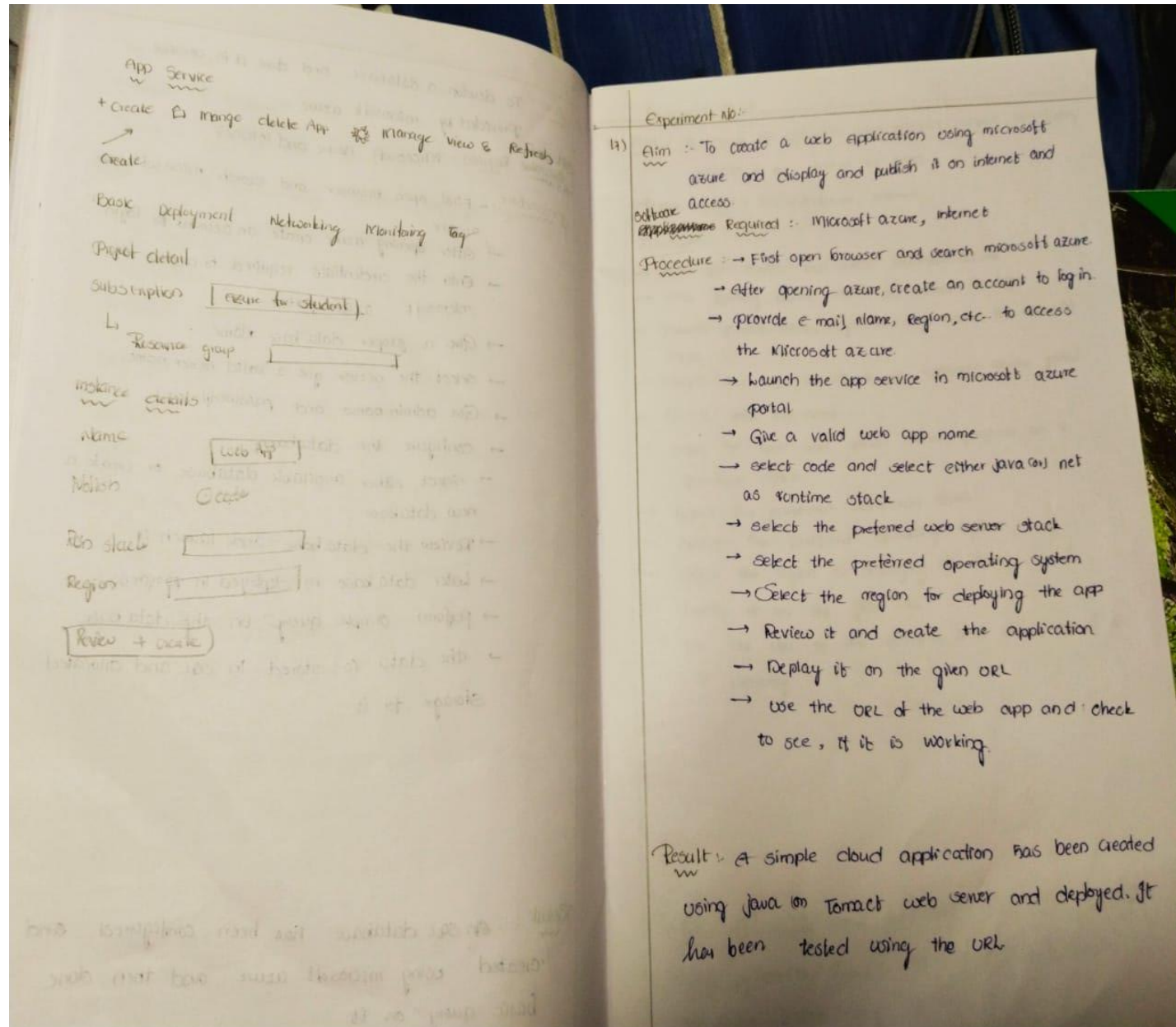
Experiment No:16

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 a application using Microsoft azure

Experiment No. 18

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 E-mail, 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 a run-time stack.
- Select the preferred webserver stack
- Select the preferred operating system
- Select the region for deploying the app
- Deploy it on the given URL
- Use the URL of the web app and check, see if it is working.

Result :- A simple cloud application has been created using python as 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

Experiment - 19

Aim:- To create datanode and namenode using hadoop

Apparatus Required: Hadoop software, internet

Procedure:-

- Download and install the hadoop software and Java.
- Set up 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`
- `$ sudo chown -R hdfsuser, hadoop /usr/local/hadoop-tmp`
- `$ Edit hdfs-site.xml`
- `$ sudo nano hdfs-site.xml`
- `$ sudo nano hdfs-site.xml`
- `$ Edit core-site.xml`
- `$ sudo nano core-site.xml`
- `$ sudo nano yarn-site.xml`
- `$ sudo nano mapred-site.xml`

Result: The creation of datanode and namenode has been successfully created and deployed using hadoop software

Experiment No:20

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

Experiment - 20

Aim : To perform MapReduce program from a word count problem

Software required : Hadoop software, internet

Procedure : → Download and install Hadoop software and Java
→ Set-up the files for running Hadoop
→ Create the Java files for map reducing

Program :

```
import java.io.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapreduce.*;
import org.apache.hadoop.mapreduce.*;
import org.apache.hadoop.mapreduce.*;
```

```
public class wordcountMapper extends MapReduceBase
implements Mapper<LongWritable, Text,
```

```
@Override
```

```
public void map(LongWritable arg0, Text arg1, OutputCollector
```

```
throws IOException
```

```
String s = arg1.toString();
```

```
for (String word : s.split(" "))
```

Result : The number of words in the file text has been counted using map reducing algorithm in Hadoop cluster,

