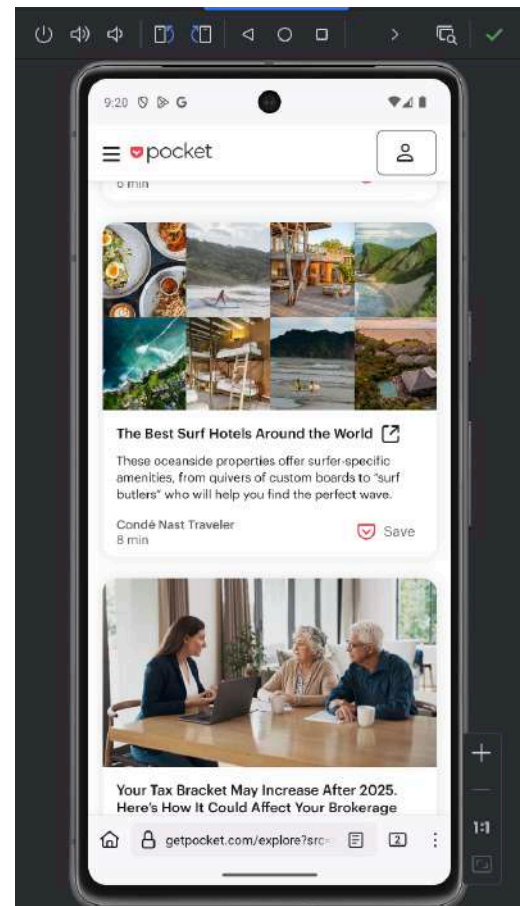
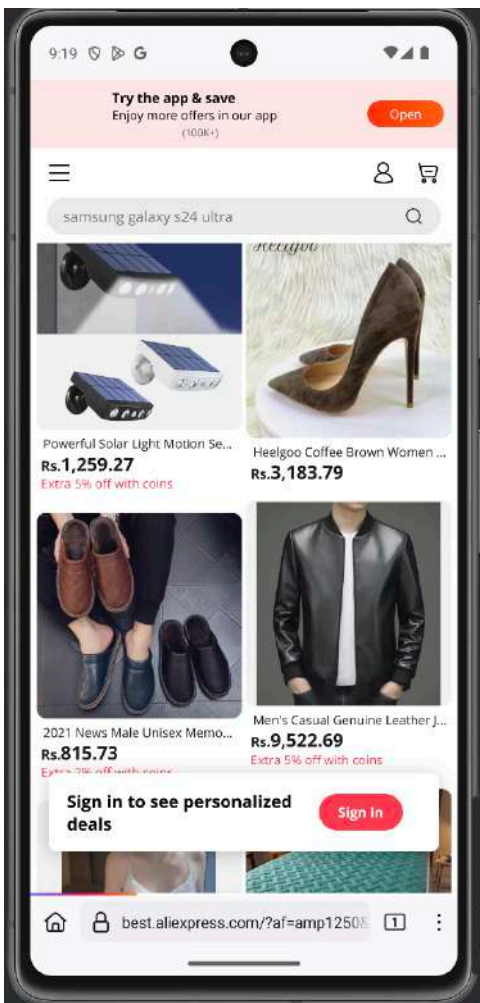
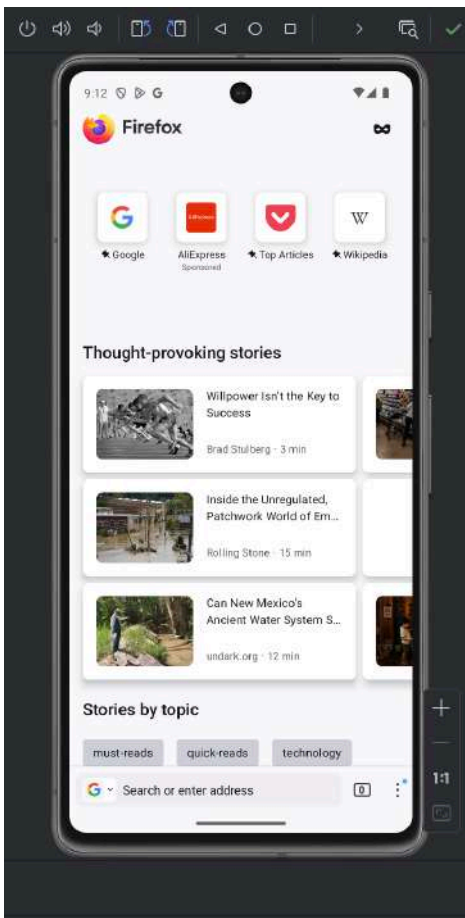
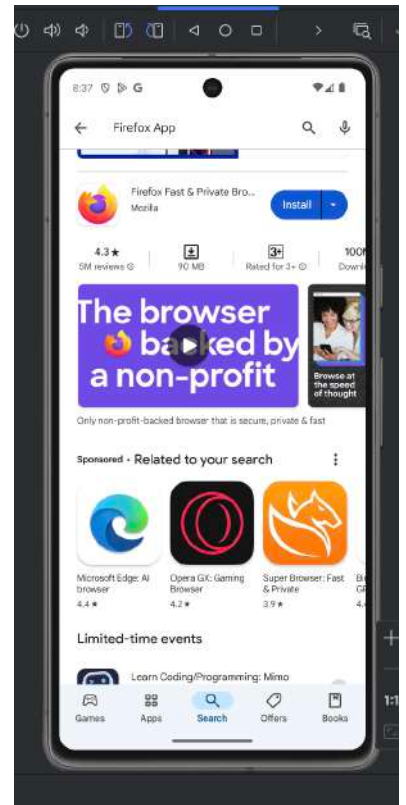
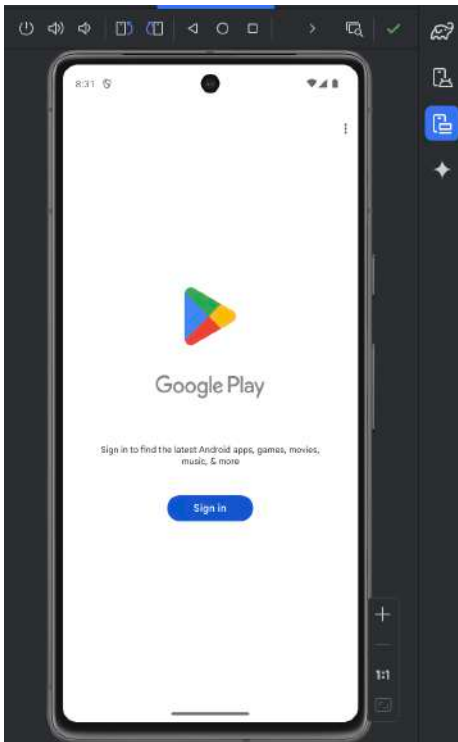


# Task 1:



## Task 2:

### Command I have used -

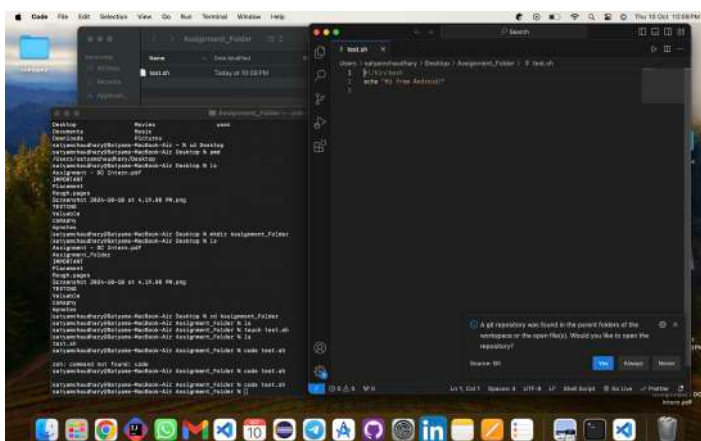
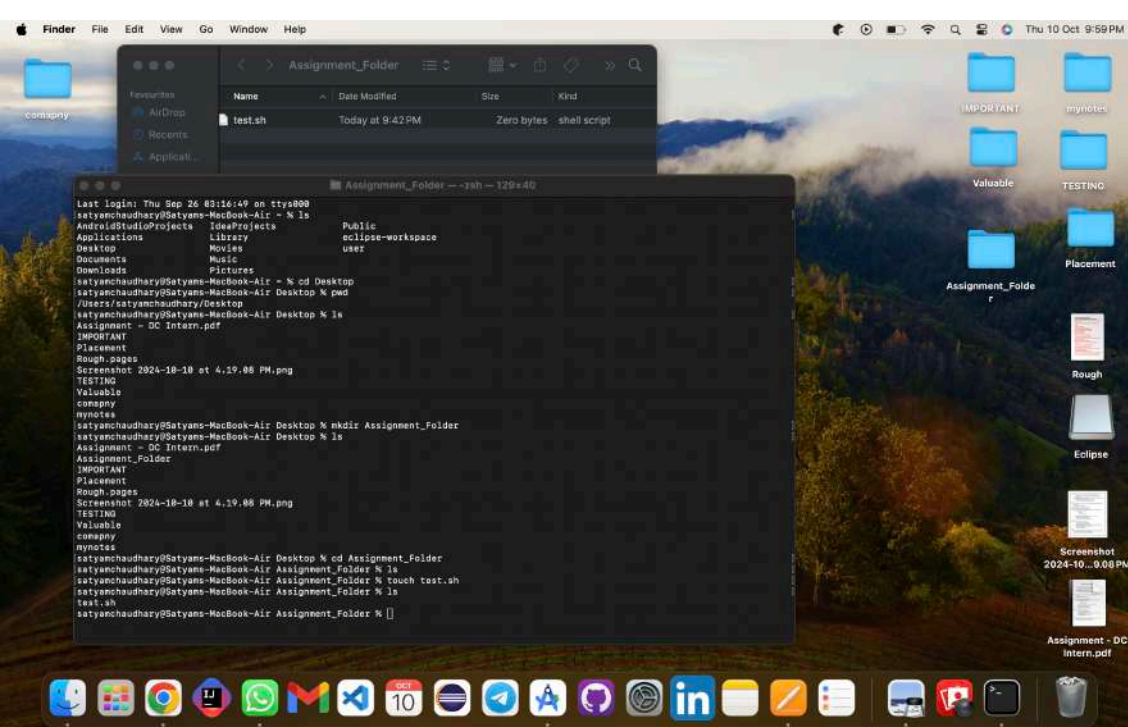
- ls - Lists the contents of the current directory
- cd Desktop -Changes the working directory to your Desktop folder.
- pwd - Prints the full path of the current working directory
- mkdir Assignment\_Folder - folder created
- cd Assignment\_Folder - Changes the working directory to the newly created "Assignment\_Folder".
- touch test.sh - Creates an empty file named "test.sh" inside the "Assignment\_Folder".
- open test.sh - to open the file
- nano test.ch - to open simple text editor
- Code test.ch - to open visual studio code
-

This is the first Method to create a file name test.sh

I have created a folder name Assignment\_Folder and inside that I have created test.sh file .

And inside test.sh I have written the Script

```
#!/bin/bash
echo "Hi from Android!"
```



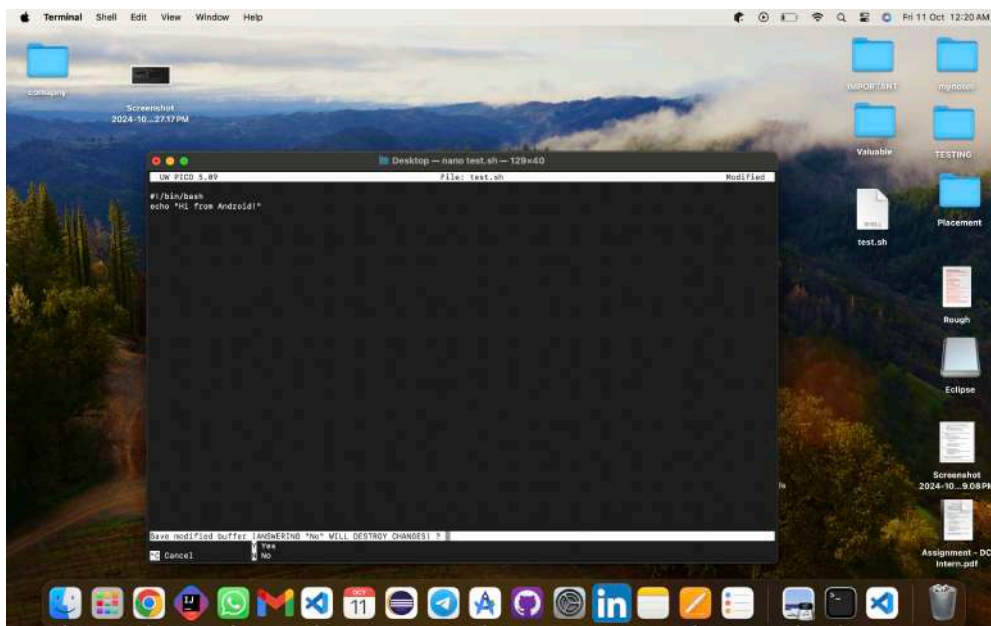


This is the Second Method to create a name test.sh

And inside test.sh I have written the Script

```
#!/bin/bash  
echo "Hi from Android!"
```

```
Desktop — -zsh — 12  
satyamchaudhary@Satyams-MacBook-Air Desktop % cd ~/Desktop  
satyamchaudhary@Satyams-MacBook-Air Desktop % touch test.sh  
satyamchaudhary@Satyams-MacBook-Air Desktop % nano test.sh  
satyamchaudhary@Satyams-MacBook-Air Desktop %
```



```
Desktop — adb shell — 129x40  
satyamchaudhary@Satyams-MacBook-Air Desktop % cd ~/Desktop  
satyamchaudhary@Satyams-MacBook-Air Desktop % touch test.sh  
satyamchaudhary@Satyams-MacBook-Air Desktop % nano test.sh  
satyamchaudhary@Satyams-MacBook-Air Desktop % adb push /Users/satyamchaudhary/Desktop/test.sh /sdcard/  
/Users/satyamchaudhary/Desktop/test.sh: 1 file pushed, 0 skipped. 0.1 MB/s (37 bytes in 0.001s)  
satyamchaudhary@Satyams-MacBook-Air Desktop % adb shell  
emu64a:/ $ cd /sdcard/  
emu64a:/sdcard $  
emu64a:/sdcard $ chmod 755 test.sh  
emu64a:/sdcard $ ./test.sh  
/system/bin/sh: ./test.sh: can't execute: Permission denied  
126|emu64a:/sdcard $
```

1.First I have Create the file named **test.sh** on my Mac by using  
**Command - touch test.sh**

2.then Open the script(test file) file in a text editor from the terminal.  
By using command - nano test.sh

nano for text editor and code for vs-code:

**Command - nano test.sh**

3. After that Pasted the following content into the file which is  
Given in Assignment:

```
#!/bin/bash
```

```
echo "Hi from Android!"
```

4.Push or copy the **test.sh** script to the emulator:

- First, we will make sure our Android Emulator is running.
- Then run the **adb push** command to transfer the file to the emulator.

**Command - adb push /Users/satyamchaudhary/Desktop/  
test.sh /sdcard/**

Open the shell in the Android Emulator:

**Command - adb shell**

This command opens a terminal interface directly into your Android emulator, allowing you to run commands on the emulator as if you were on the device itself.

Change the permission of the file to **755**:

Navigate to the directory where you copied the script.

**Command - cd /sdcard/**

Change the permission to 755 using the chmod command:

**Command - chmod 755 test.sh**

Run the **test.sh** script:

**Command - ./test.sh**

ADB ka full form hai **Android Debug Bridge**. Ye ek versatile command-line tool hai jo aapko ek Android emulator ya connected Android device ke saath communicate karne deta hai. Iske through aap device pe alag-alag actions kar sakte ho, jaise apps install karna, unhe debug karna, aur ye aapko ek Unix shell tak access bhi deta hai jahan aap device par commands run kar sakte ho.

## **zsh: command not found: adb**

1. we have to Downloaded the SDK Platform Tools for Mac

2. Extracted that downloaded ZIP file:

3. Add the Platform Tools to your PATH:

- Open Terminal and navigate to the extracted folder using the cd command:

**Command - cd /Users/satyamchaudhary/Desktop/platform-tools**

4. Add the platform tools to your PATH by editing your .zshrc file:

**Command - nano ~/.zshrc**

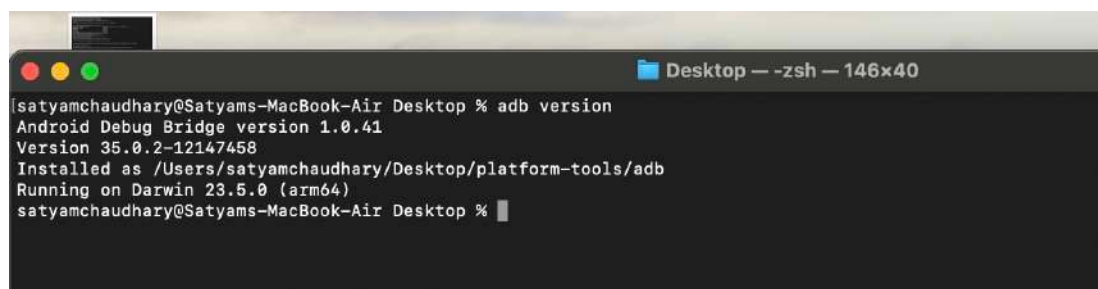
5. Add the following line at the end of the file,

**Command - export PATH=\$PATH:/Users/satyamchaudhary/Desktop/platform-tools**

- Save the file and exit the editor (in nano, press Ctrl + X, then Y, and hit Enter).

Restart Terminal:

Verify the installation by typing adb version



```
satyamchaudhary@Satyams-MacBook-Air Desktop % adb version
Android Debug Bridge version 1.0.41
Version 35.0.2-12147458
Installed as /Users/satyamchaudhary/Desktop/platform-tools/adb
Running on Darwin 23.5.0 (arm64)
satyamchaudhary@Satyams-MacBook-Air Desktop %
```

# Let's Understand the error -

**/system/bin/sh: ./test.sh: can't execute: Permission denied**

When we execute this command - `chmod 755 test.sh`

**chmod:** Change file mode (permissions).

**755:** This sets permissions to:

- Owner: read (r), write (w), execute (x)
- Group: read (r), execute (x)
- Others: read (r), execute (x)

The `ls -l test.sh` -

command is used to display detailed information about the test.sh

**ls -l test.sh**

What we are getting - `-rw-rw---- 1 u0_a168 media_rw 37 2024-10-10 23:06 test.sh`

Our should see output like this

`-rwxr-xr-x 1 u0_a168 media_rw 37 2024-10-11 00:20 test.sh`

To correct this we need to run this command. -

**chmod +x test.sh**

But didn't worked for me ,



## Task -3

Video is Uploaded on Github with file

## Task - 4

