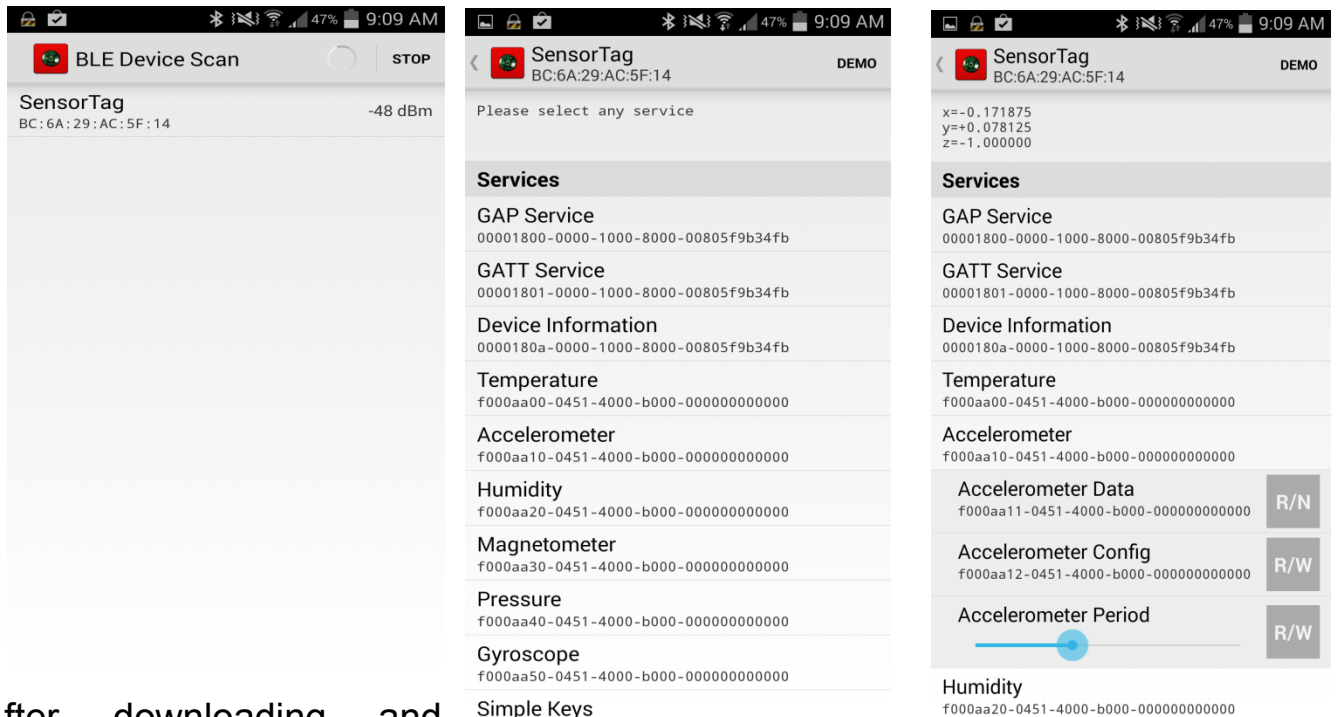


Lab -1

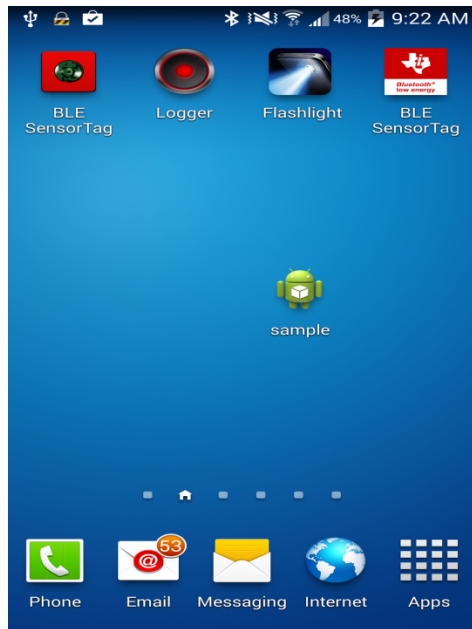
TASK 1(Group)

Subtask1: TI Sensor Tag with Android Sensor Tag

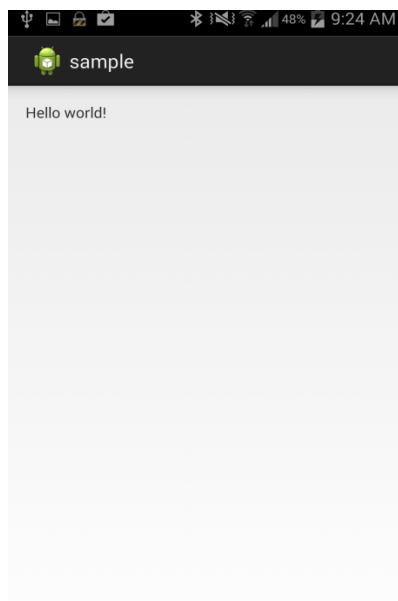
Downloaded the BLE Sensor tag app from the Google play. The BLE sensor tag is connected to the sensor tag via bluetooth to see the reading in the app



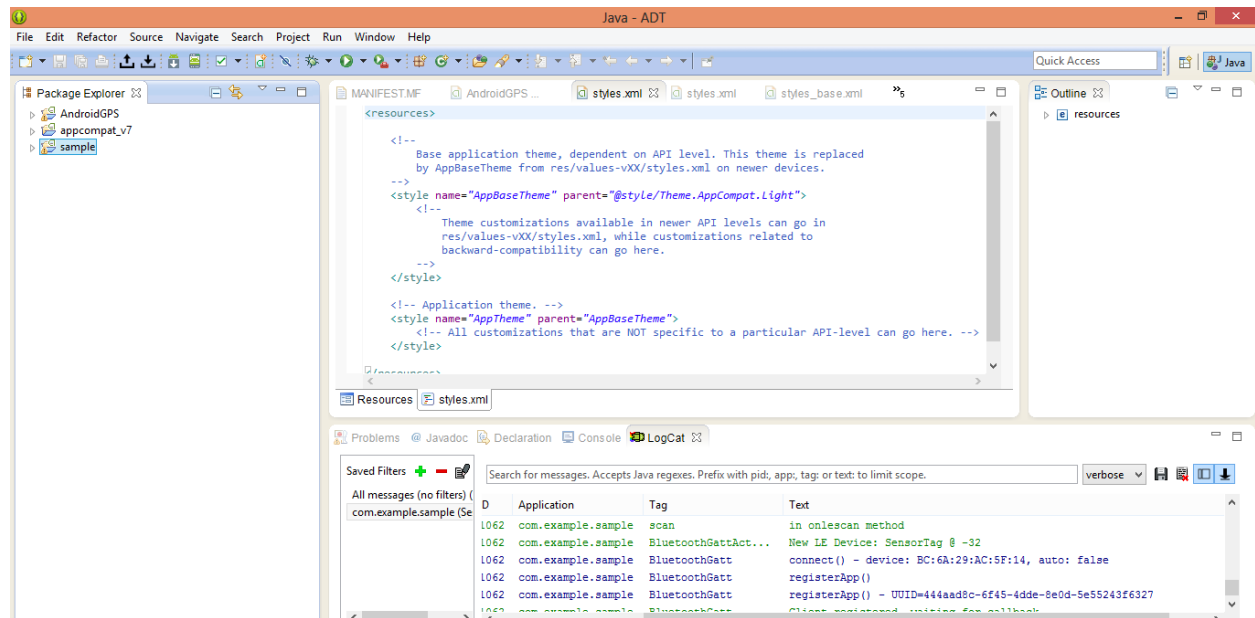
After downloading and open the source code file Android-Sensortag, connected to the device via wire and install the app in the device



The given source code file is opened and the device is connected to sensor tag via bluetooth the, the data is read from the device via Bluetooth and can be seen in the log file of the ap in ADT.

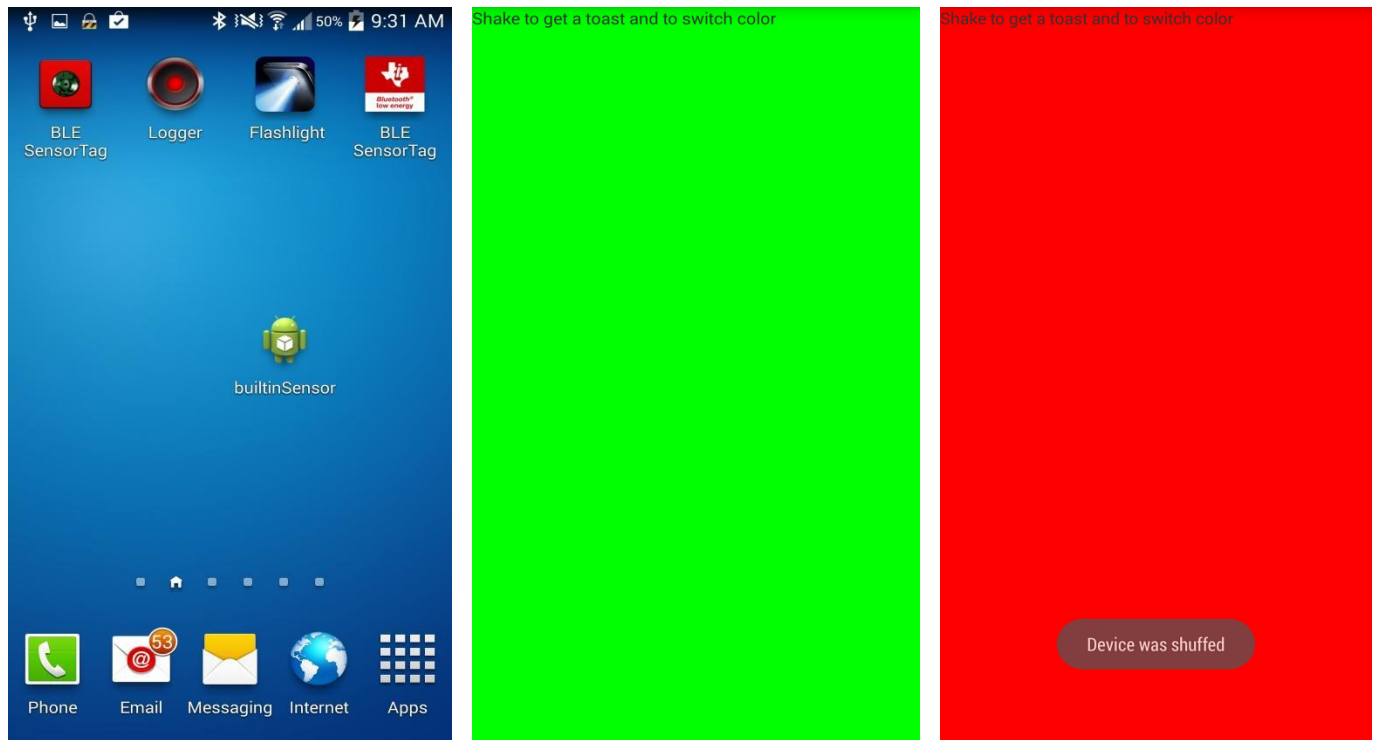


The Sensor tag reading from the log file



Subtask2. Mobile sensor with Android App.

The source is downloaded from blackboard and is opened in Eclipse ADT, the app is installed into the device and when it is opened it reads the data from the inbuilt sensors, which we can see the color change in the screens when the device is shaken



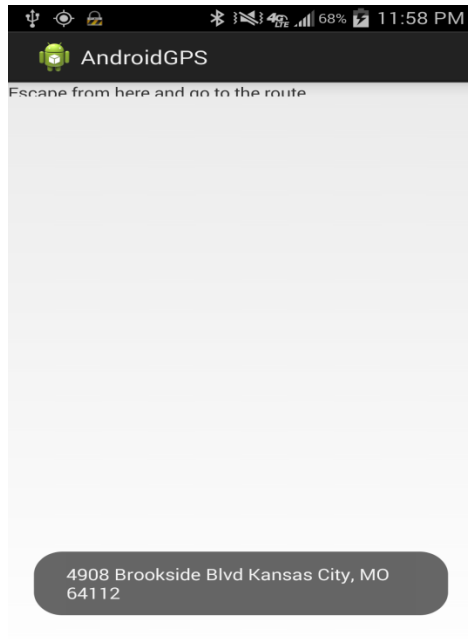
initially the screen is green and due to changes in the internal gyroscope data the screen changes to color red and leaves a toast that is device is shuffled

Subtask 3: GPS Feature with Android Smart phone.

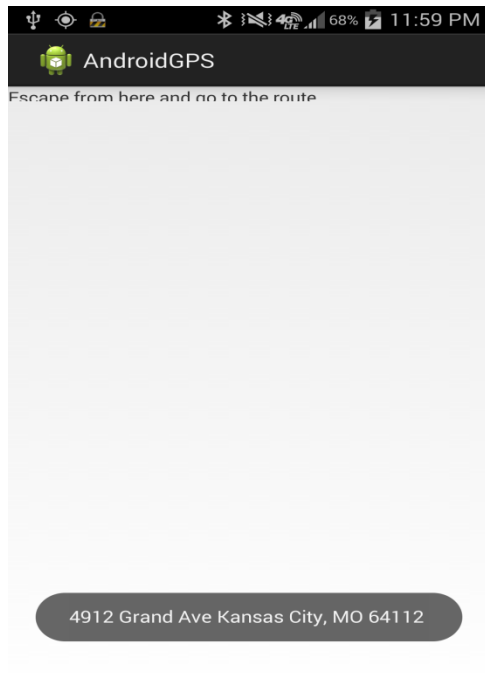
The given source code is downloaded from the black board and opened in Eclipse ADT, to make the necessary required changes.

This app collects the data from the in built device GPS of android device and mentions the latitude and longitude and the Address of the location

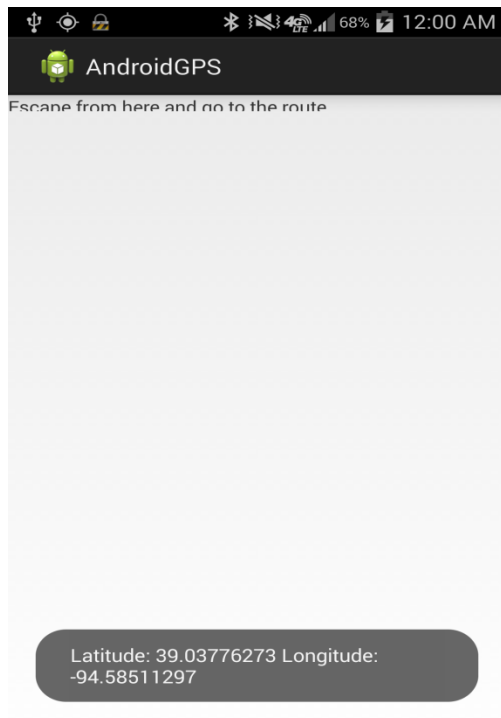
Initial Location of the device



Upon the change of location



The latitude and longitude of the device location



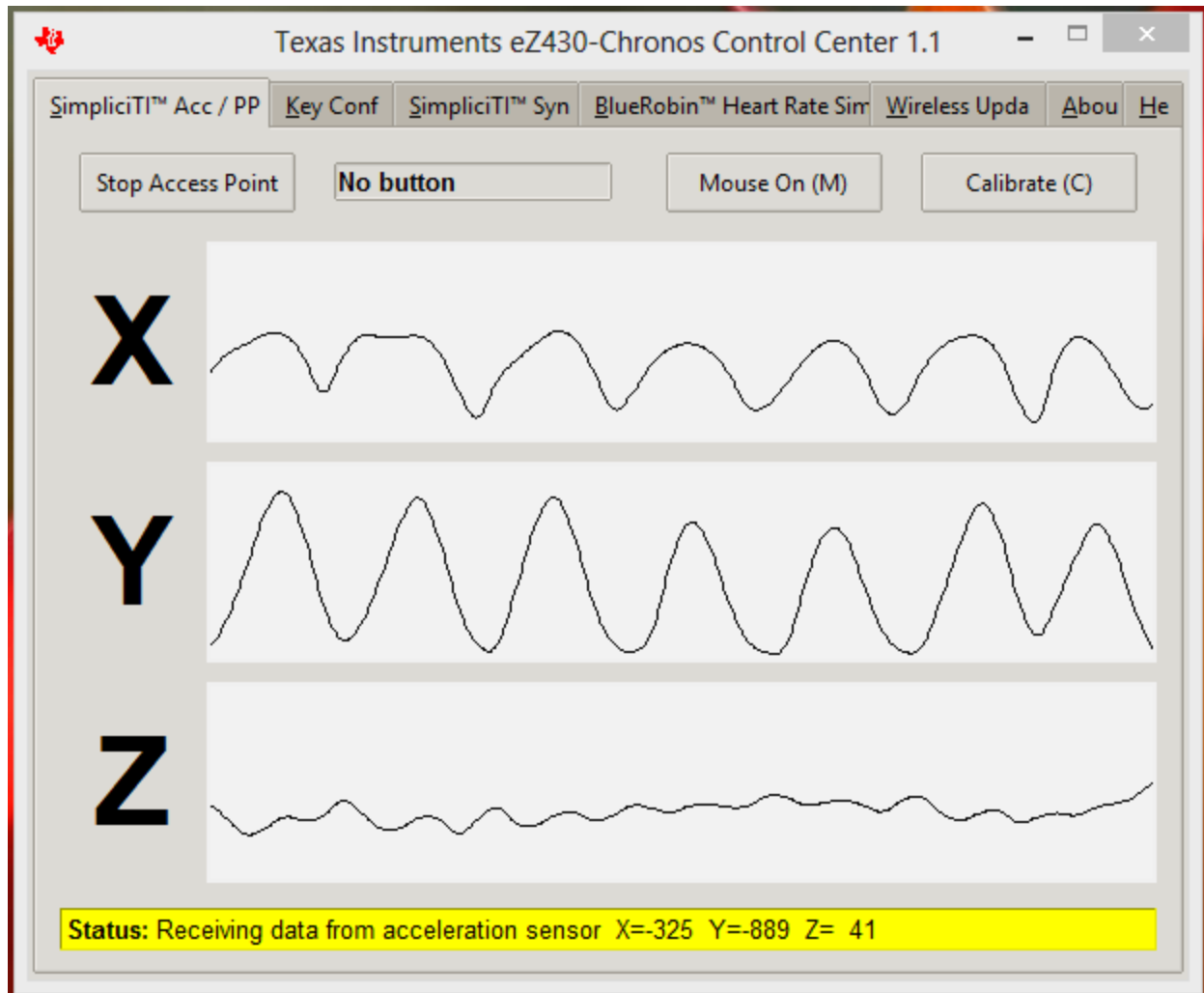
Sub Task 4:

Wiigee app with android smart phone.

We don't have the Wii Controller to check this one.

Subtask 5: TI Chronos watch with JAVA App

After downloading and installing the control center from the CD, the chronoswatch is connected to the control center in ACC mode via a RF receiver. The changes in the orientation and movement of device is recorded in all the three dimensional axes



The Punch game is installed into PC and is connected to the Chronos watch via RF receiver which takes the readings

Due to RF connector problem we are unable to play the game but however we are able to get the readings from the device

The screenshot displays the 'PunchGame' application window. At the top, the title bar reads 'PunchGame'. The main interface features a cartoon character on the left, a score display on the right, and a control panel on the bottom right. The character is a simple figure with a yellow head, green shirt, blue pants, and brown shoes, holding red boxing gloves. The score display shows 'Time Remaining: 27', 'Score: 0', and 'High Score: 0'. The control panel includes three buttons: 'Start Game!', 'Establish Watch Communication', and 'Exit Game'. A 'TKF' label is positioned above a 'Punch: 0' label. At the bottom, a status bar contains a long grey rectangle and a text area with the message 'Cannot Receive Data. Comm not set up properly.' repeated five times. A vertical scrollbar is visible on the right side of the status bar.

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The screenshot displays the 'PunchGame' application window. At the top center, the title 'PunchGame' is visible. On the left side, there is a cartoon character of a person with a yellow head, green shirt, and blue pants, wearing red boxing gloves and in a ready stance. To the right of the character, the game status is shown: 'Time Remaining:' followed by a large '27', 'Score: 0', and 'High Score: 0'. Below this, there are three buttons: 'Start Game!', 'Establish Watch Communication', and 'Exit Game'. Further down and to the right, the text 'TKF' is displayed above a 'Punch: 0' label. At the bottom left, there is a grey rectangular bar. The bottom of the window features a scrollable log area containing multiple instances of the error message: 'Cannot Receive Data. Comm not set up properly.'

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The screenshot shows the 'PunchGame' application window. At the top, the title bar reads 'PunchGame'. The main area features a cartoon character on the left, a large 'Time Remaining: 27' display on the right, and 'Score: 0' and 'High Score: 0' below it. Three buttons are stacked vertically on the right: 'Start Game!', 'Establish Watch Communication', and 'Exit Game'. The text 'TKF' is centered below the buttons. At the bottom, a grey bar contains the text 'Punch: 0'. A console window at the very bottom displays multiple lines of the error message 'Cannot Receive Data. Comm not set up properly.'

TASK 2:

Umkc Vpn

← → www.umkc.edu/is/support/services/vpn/Windows/

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VPN for Windows

Students may access UMKC network resources from off-campus through a Virtual Private Network (VPN) client. The UMKC VPN client provides a secure connection to your personal and web page storage via the H: and Q: drives for Windows 7/Vista/XP computers. Additionally, Macintosh computers can connect with VPN software built into the operating system.

VPN Client Software

The UMKC VPN clients are available in multiple packages depending on operating system and drive mapping functionality. Click the file name to download and install the most appropriate version for your system and usage.

- Windows XP VPN client without drive mappings (v432x.exe)
- Windows XP VPN client with H: and Q: drive mappings (v432vd.exe)
- Windows XP (64-bit) VPN client without drive mappings (v464x.exe)
- Windows XP (64-bit) VPN client with H: and Q: drive mappings (v464vd.exe)
- Windows 7/Vista VPN client without drive mappings (v432v.exe)
- Windows 7/Vista VPN client with H: and Q: drive mappings (v432vd.exe)
- Windows 7/Vista (64-bit) VPN client without drive mappings (v464v.exe)
- Windows 7/Vista (64-bit) VPN client with H: and Q: drive mappings (v464vd.exe)

Note: All four Windows 7/Vista clients work in Windows 8.

Macintosh OS X (10.2 and above) has VPN software built into the operating system. Click the link below to access this instruction set.

MacOS X VPN instructions

Windows VPN Client Installation Instructions

- Click to download and run the appropriate VPN client from one of the links above. Depending on security settings, you may receive a second prompt. If so, click the Run button in this second prompt, too.

File Download - Security Warning

Do you want to run or save this file?

Name: v432vd.exe
Type: Application, 168KB
From: www.umkc.edu

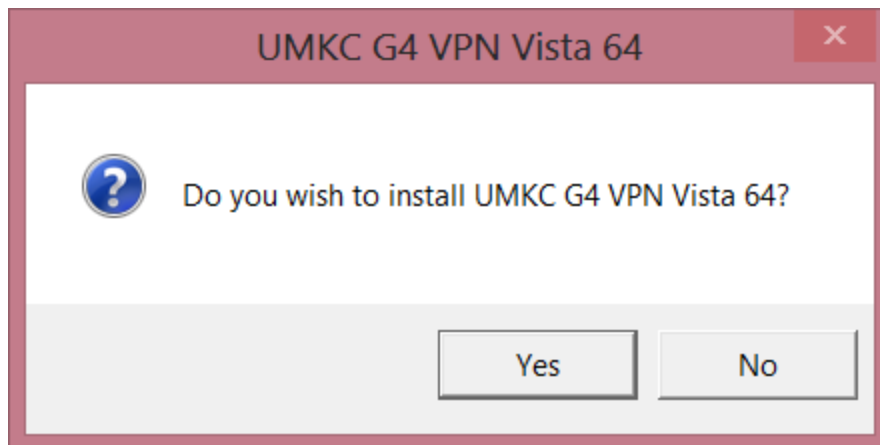
Run Save Cancel

While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

- You will be asked if you want to install the VPN Client. Click "Yes" to continue.

www.umkc.edu/is/support/services/vpn/mac/

UMKC G4 VPN Vista 64



UMKC G4 VPN Vista 64



Make this connection available for:



☐ All users

☒ My use only

This connection is available from the Network Connections folder.

☐ Add a shortcut on the desktop

OK

Cancel



UMKC G4 VPN Vista 64



User name:

spp64

Password:

☒ Save password

☐ Connect automatically

Call 816-235-2000 for assistance

Connection status

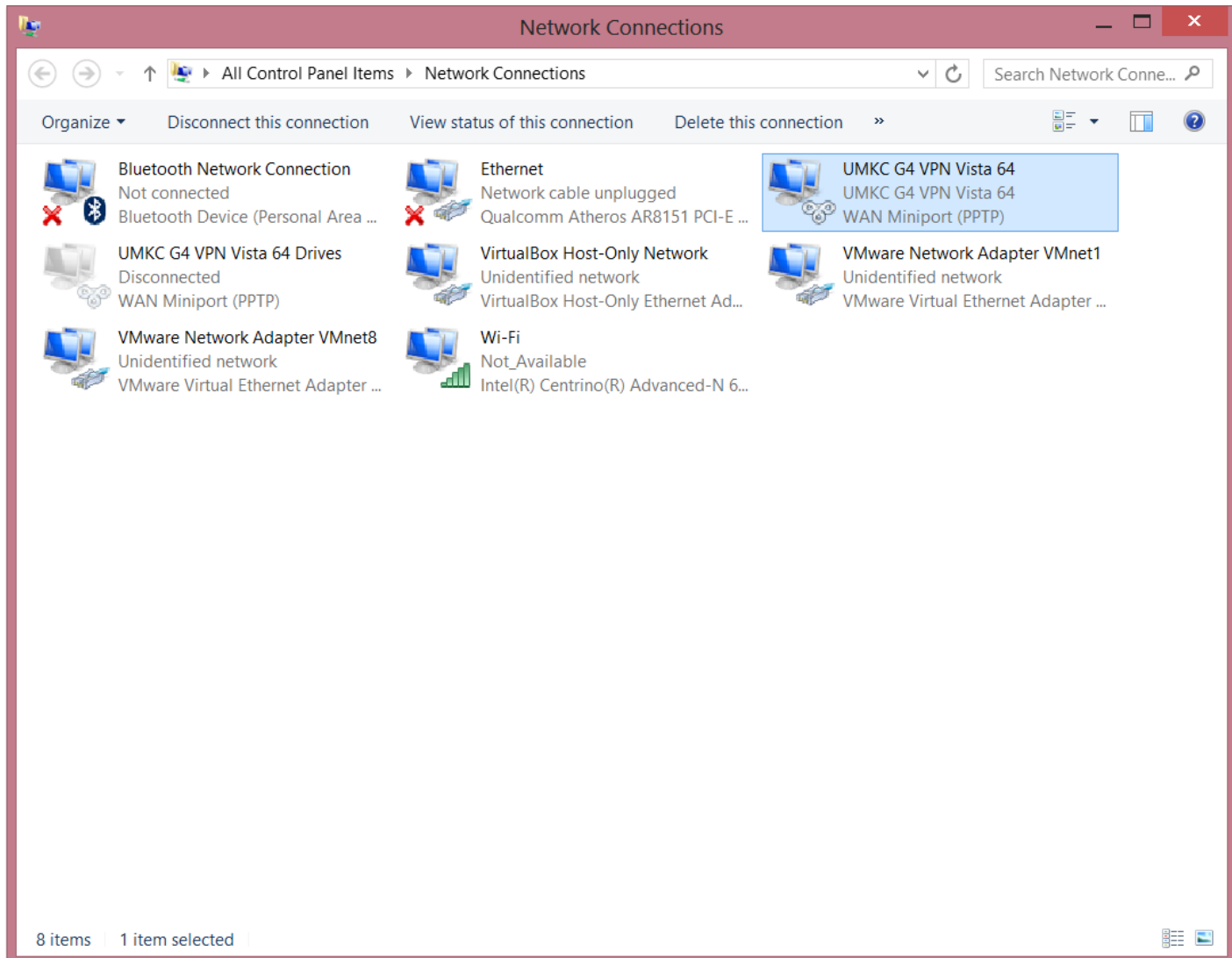
Click Connect to begin connecting. To work offline, click Cancel.

Connect

Cancel

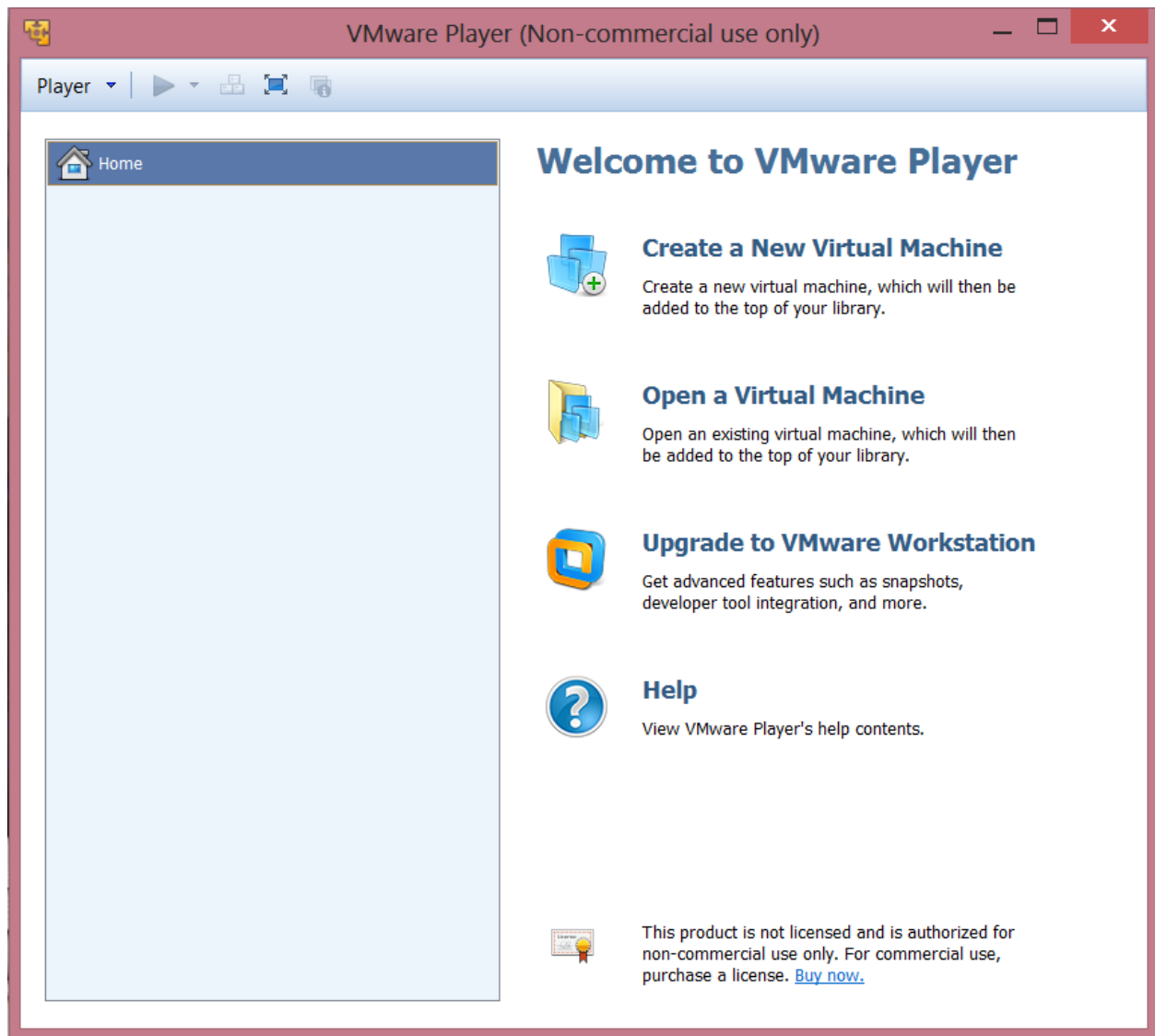
Properties

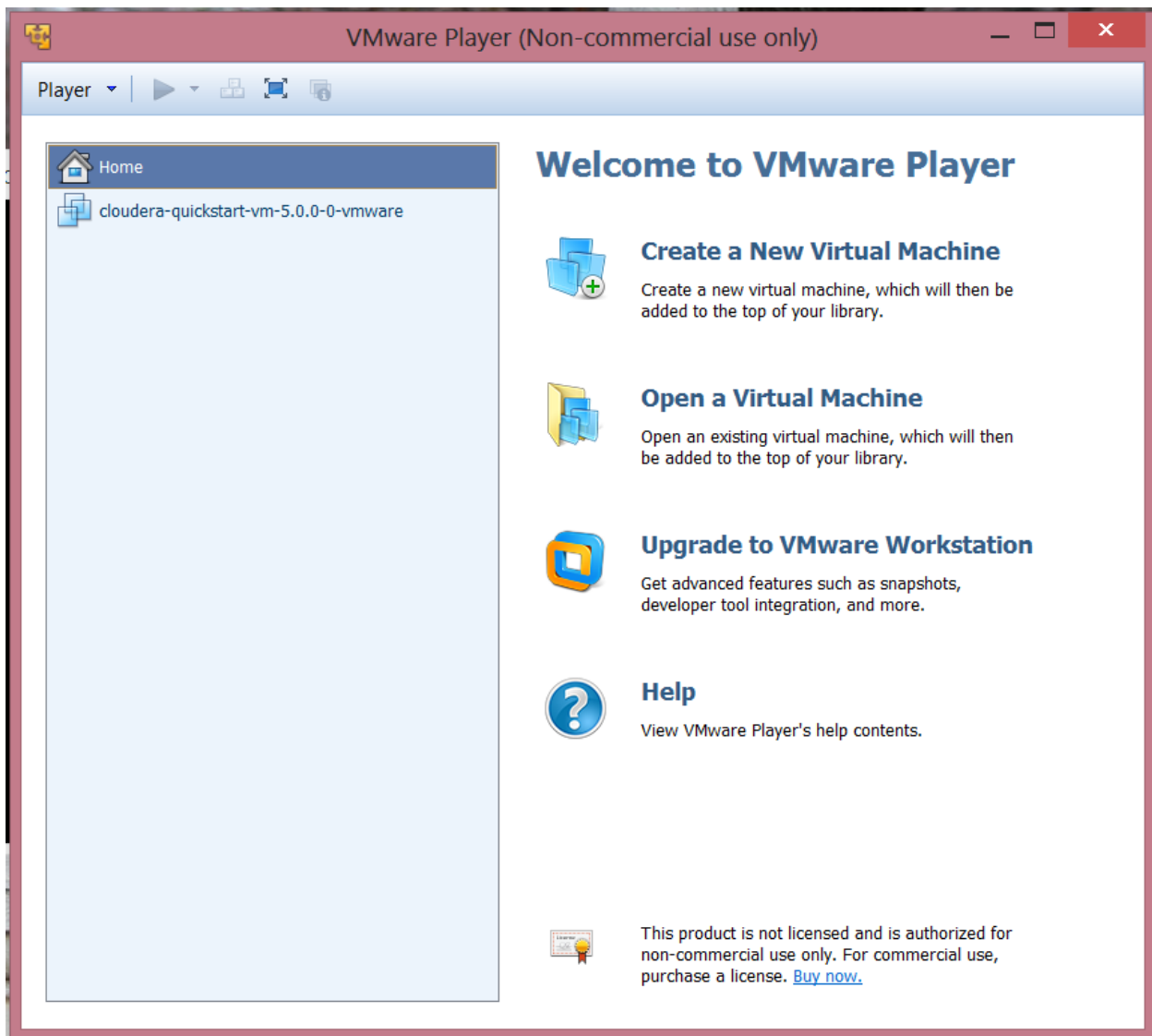
Help



Cloudera Installation

Downloaded and Installed VMware Player.





Hadoop WordCount:

A terminal window titled "cloudera@localhost:~/Desktop/Hadoop-WordCount" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command "hadoop fs -put input input" being executed. The prompt is "[cloudera@localhost Hadoop-WordCount]\$".

```
cloudera@localhost:~/Desktop/Hadoop-WordCount
File Edit View Search Terminal Help
[cloudera@localhost Hadoop-WordCount]$ hadoop fs -put input input
[cloudera@localhost Hadoop-WordCount]$
```



```
[cloudera@localhost Hadoop-WordCount]$ hadoop jar wordcount.jar WordCount input
output3
14/06/17 08:25:35 INFO client.RMProxy: Connecting to ResourceManager at localhos
t.localdomain/127.0.0.1:8032
14/06/17 08:25:36 INFO input.FileInputFormat: Total input paths to process : 1
14/06/17 08:25:37 INFO mapreduce.JobSubmitter: number of splits:1
14/06/17 08:25:37 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_14
03017795849_0001
14/06/17 08:25:38 INFO impl.YarnClientImpl: Submitted application application_14
03017795849_0001
14/06/17 08:25:38 INFO mapreduce.Job: The url to track the job: http://localhost
.localdomain:8088/proxy/application_1403017795849_0001/
14/06/17 08:25:38 INFO mapreduce.Job: Running job: job_1403017795849_0001
14/06/17 08:25:46 INFO mapreduce.Job: Job job_1403017795849_0001 running in uber mode : false
14/06/17 08:25:46 INFO mapreduce.Job: map 0% reduce 0%
14/06/17 08:25:54 INFO mapreduce.Job: map 100% reduce 0%
14/06/17 08:26:00 INFO mapreduce.Job: map 100% reduce 100%
14/06/17 08:26:00 INFO mapreduce.Job: Job job_1403017795849_0001 completed successfully
14/06/17 08:26:01 INFO mapreduce.Job: Counters: 49
  File System Counters
    FILE: Number of bytes read=86991
    FILE: Number of bytes written=357409
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=384346
    HDFS: Number of bytes written=120766
    HDFS: Number of read operations=6
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=2
  Job Counters
    Launched map tasks=1
    Launched reduce tasks=1
    Data-local map tasks=1
    Total time spent by all maps in occupied slots (ms)=1419776
    Total time spent by all reduces in occupied slots (ms)=1124096
    Total time spent by all map tasks (ms)=5546
    Total time spent by all reduce tasks (ms)=4391
    Total vcore-seconds taken by all map tasks=5546
    Total vcore-seconds taken by all reduce tasks=4391
    Total megabyte-seconds taken by all map tasks=1419776
    Total megabyte-seconds taken by all reduce tasks=1124096
  Map-Reduce Framework
    Map input records=9488
    Map output records=67825
    Map output bytes=643386
    Map output materialized bytes=86987
    Input split bytes=139
    Combine input records=67825
```


Map-Reduce Framework

Map input records=9488
Map output records=67825
Map output bytes=643386
Map output materialized bytes=86987
Input split bytes=139
Combine input records=67825
Combine output records=11900
Reduce input groups=11900
Reduce shuffle bytes=86987
Reduce input records=11900
Reduce output records=11900
Spilled Records=23800
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=77
CPU time spent (ms)=3870
Physical memory (bytes) snapshot=437747712
Virtual memory (bytes) snapshot=1806557184
Total committed heap usage (bytes)=352321536

Shuffle Errors

BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0

File Input Format Counters

Bytes Read=384207

File Output Format Counters

Bytes Written=120766

```
cloudera@localhost: ~/Desktop/Hadoop-WordCount
File Edit View Search Terminal Help
yet--there's 1
yet. 1
yet." 1
yew-hedges 1
yews 1
yi, 1
yielded 1
yielding 1
yielding, 1
yo' 4
yon 1
you 400
you! 3
you!" 5
you'--I 1
you'd 13
you'll 8
you're 24
you've 12
you, 21
you," 12
you--" 1
you---'" 1
you--I 1
you--the 1
you--wait 1
you. 14
you." 15
you; 1
you? 2
you?" 23
young 42
young, 7
young. 2
young." 1
younger 1
youngest 3
your 74
yours," 1
yours?" 1
yourself 5
yourself, 1
yourself. 1
yourself." 1
yourself; 1
youth 7
youth, 1
youth. 1
youthful 1
[cloudera@localhost Hadoop-WordCount]$
```

TASK 3:

Created a GitHub and Scrumdo Account.

The screenshot shows a GitHub repository page for 'spp64 / Lab1'. The repository is public and has 1 commit, 1 branch, 0 releases, and 1 contributor. The main branch is 'master', and there is a new branch 'Lab1' that has just been created. The repository contains a single file, 'README.md', which is the 'Initial commit'. The README content includes the title 'Lab1' and the subtitle 'BigData Lab exercise 1'. On the right side, there is a sidebar with links to 'Code', 'Issues', 'Pull Requests', 'Wiki', 'Pulse', 'Graphs', 'Network', and 'Settings'. Below these links, there is a section for cloning the repository, showing the HTTPS clone URL 'https://github.com/sj' and buttons for 'Clone in Desktop' and 'Download ZIP'. The footer of the page shows the GitHub logo, the copyright notice '© 2014 GitHub, Inc.', and links to 'Terms', 'Privacy', 'Security', and 'Contact'. On the right side of the footer, there are links to 'Status', 'API', 'Training', 'Shop', 'Blog', and 'About'.

BigData Lab exercise 1 — Edit

1 commit 1 branch 0 releases 1 contributor

branch: master Lab1 / +

Initial commit

spp64 authored just now latest commit 44279cc092

README.md Initial commit just now

README.md

Lab1

BigData Lab exercise 1

Code

Issues 0

Pull Requests 0

Wiki

Pulse

Graphs

Network

Settings

HTTPS clone URL

https://github.com/sj

You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop

Download ZIP

© 2014 GitHub, Inc. Terms Privacy Security Contact

Status API Training Shop Blog About

Logged into github from windows.

