### **EXPERIMENT NUMBER – 2.2**

Branch: CSE Group:-5 Semester: 2nd Subject Name: IOT Lab Section:26-B

Date of Performance:01/03/2021 Subject Code: 20ECP-154

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# AIM:

Develop a smart phone application for smart home voice-assistant.

#### STEPS –

http://ai2.appinventor.mit.edu/#5064335321071616

Anyone Can Build Apps Tha	t Impact the World	Coogle Custom S
1 8 💟 🗃 🕰 🚮 💊	CLICK HERE	Donatel
join ( * MIT App Inventor)*     Summit *     2019  August 1-3, 2019		MassTLC 2017 Distinguished Leader Award
Register	Youth Mobile Power App Challenge Winners Announced!	Try our App Building



creen1 • Ac	dd Screen Remove Scree	n Publish to Gallery		
Viewer				Components
	Display hidden comp Phone size (505,320	oonents in Viewer		Constraints Screen 1 Constraints Screen 1 Constrain
	Welcome Screen	Create new App Inventor Project name:	smart_home	<ul> <li>▲ state</li> <li>☑ VerticalArra</li> <li>▲ messag</li> <li>■ mic_but</li> </ul>
		Cancel	ОК	▲ text ● Web1 ↓ SpeechRec
		MIC to Speak!		

		My projects	h to Gallery
	u Que no manta de	Start new project	
		Import project (.aia) from my computer	
		Import project (.aia) from a repository	nents in Viewer
		Move To Trash	~
	۲	Save project	
	Ø	Save project as	0
	?	Checkpoint	🦻 🖬 9:48
	?	Export selected project (.aia) to my computer	
	?	Export all projects	
	(?)	Import keystore	
		Export keystore	
	?	Delete keystore	
	?		
	?		
Pox			

9		
en1	Import Project	
5111	Choose File No file chosen	
	Cancel	

### FOR FILE DOWNLOAD THE MARKED WITH LINK PROVIDED:

# https://drive.google.com/drive/folders/1nClif7dSoviP04Vy1i03RYKfhfow8usc

Name	<b>^</b>	Owner	Last modified	File size
1	T1_Intro		Jan 27, 2021	-
	T2_Weather		Jan 27, 2021	-
	T3_Air_Quality		Jan 27, 2021	-
	T4_Smart Home		Jan 27, 2021	-
	T5_Robot_Motion		Jan 27, 2021	-
	T6_Video_Survelliance		Jan 27, 2021	-
	T7_Signal_Log		Jan 27, 2021	-
	T8_Intruder_Alert		Jan 27, 2021	_
	T9_Human_Vitals		Jan 27, 2021	-
	16:25	3	0.47	

### UPLOAD THE FILE FROM WHERE EVER YOU HAVE DOWNLOAD IT!

🦁 Open	🗙 📥 My file
← → ∨ ↑ 📙 « T4_Sma » T4_Smart_Home	✓ ♥ Search T4_Smart_Home
Organize 👻 New folder	🖽 - 💷 🕐
⇒ This PC 🖈 ^ Name ^	Date modified
Documents     Documents	05-04-2021 15:02
E Pictures 🖈	
Alicization           New folder	<b>1</b> ₿ 0·49
New folder (2)	chosen
S2	
	OK
and the second s	
🔮 Network 🗸 🧹	
File name:	✓ AIA File ✓
	Open Cancel
Slider 🥑	
Spinner 💿	
- Cwitch	

AFTER THAT GO TO CHECK PROJECTS -> MY PROJECTS -> AND CHOOSE THE ONE WITH THE NAME TEST AS A SUFFIX.

https://stem.ubidots.com/app/dashboards/606addd91d8472491e6e6b70

Ubidots	Devices -	Data 🗸		<b>∂</b> ≜ <b>○</b> -
≡ smart home			苗 Apr 10 2021 04:44 - Now 👻 ,	Vusername: HarshitPant
ndicator widget				My Profile
J.				API Credentials
				Docs
No Data Found				Log out
There seems to be no data to visualize in the date range you have selected				

### MAKE A ACCOUNT ON ubidots

Ubidots	Devices 🕶 🛛 Data 🕶
≡ smart home	Devices
	Groups 💿
Indicator widget	Types 💿
	Functions 🤇
No Data Found	Plugins <b>BETA</b>
There seems to be no data to visualize in the date range you have selected	
-	



# **CHOOSE BLANK DEVICE OPTION**

Devices <del>-</del>	Add New Device
	< BACK
	Device name
	smart home
	Device label
	smart-home

# FIRST ON click ADD VARIABLE AND THEN ON RAW

← Devices	
🖌 art home	
ription	
nge description	
abel	
't-home	
)	
233881d847234b350b05c	
n 🍺 🐵	+ Σ Synthetic
	Add Variable
new tag	
activity	L
1.11.11	

# NAME IT – switch After creating variable successfully

Devices	- Data -
ی ک	Dashbqards
al and a second se	Events

Devices - Data -	Add new General I	Dashboard × nformation
	Name	New Dashboard
	Default time range	Last 24 hours
	Dynamic Dashboard 0	
No Dashboards created yet	Screen size	Auto 오
Create Dashboards to visualize your data in realtime	Date format	04/05/2021 15:14 🕑
Add new Dishboard	Appearance	^
	Floating widgets	
	Widgets opacity	100
		V

# WRITE NAME SWITCH IN NAME SECTION AND THEN SAVE

Ubidots	Devices - Data -	A	dd new wid	× get
≡ switch				
•		Bar chart	Battery	Clock
Add new Widget		Devices Table	Double Axis	Gauge
		HTML Canvas	Histogram	Image
		Indicator	Line chart	Manual input

# CHOOOSE INDICATOR AS A OPTION

### CLICK ON ADD VARIABLE

	Indicator	×
< BACK		
Data		^
	+ Add Variables	_
Appearance		^
Name	Indicator widget	

# CHOOSE SMART HOME AS A VARIABLE AND THEN SWITCH Before going forward change name To bulb

Name	bulb	
Display labels		

Widget Creation Select Variables	×
Search	Q
smart home	1 Variable
switch	
	4 →

## NOW GO BACK TO DEVICES SECTION AND NOW COPY THE API LABEL NAME

AFTER THAT

GO TO MIT SITE

CLICK ON THE BLOCKS SECTION IN THE RIGHT TOP CORNER

- 19 - 19	
smart home	
Description	
Change description	
API Label ③ smart-home	
ID 🚯	
607233881d847234b350b05c	
Token	
•••••••••••••••••••••••••••••••••••••••	switc
Tags	Last a
Add new tag	Nol
Last activity	
No last activity	VAF
Device type 😒	

	Designer Blocks
_	else if Contains V text (get text V piece ("off"
7	then set message • . Text • to ( " Command Sent " call sendCommand • command ( " 0 " set state • . Text • to ( " OFF "
	else set message v . Text v to ( "Invalid Command! "

# PASTE THE NAME YOU COPIED TO THE LAST OF THE LINK

message • . Text • to • "Listening Complete!"	then set message v
recognizeCommand •	
text ( get result .	call sendCommar
	comm
	set state . Tex
	else set message .
to sendCommand command	
do set Web1 • . Url • to C * s://things.ubidots.com/api/v1.6/device	es/ <mark>smart-home</mark> ) "
🗴 set [Web1 🖬]. RequestHeaders 🖬 to 🧃 make a dictionary (	key ("X-Auth-Token"
call Web1 PostText	A Addit Token
	key ("Content-Type"
dictionary 🚺 🏟 make a dictionar	Y { key ( switch " )
Snow warnings	

# **COPY THE TOKEN ID**

ID <b>()</b> 607233881d847234b350	)b05c	
Token	<b>i</b> 0	 switch
Tags Add new tag	Copied	Last activity: No last activity
<b>Last activity</b> No last activity		VARIABLES PER

# PASTE YOUR COPIED TOKEN ID HERE AT THE VALUE SECTION

else set message . Text to ( " Invalid Command! "	÷
hake a dictionary { key ( " X-Auth-Token " value ( " BBFF-wqO41se23BamNCuN5TW8nf62Mofyaq "	(+) (-)
make a dictionary ( key ( "switch " value ( get command •	Î

# COPY YOUR TOKEN NAME WHICH IS switch IN MY CASE AND PASTE IT IN THE KEY SECTION



# NOW TO MAKE OUR QR CODE



	Screen 1 • Add Screen Remove Screen Publish to Gallery
	Viewer
<b>^</b>	
	Smart Home Test Progress Bar
	20%
	Compiling part 1
nent1	istening " piece ( " on "
	then set message . Text to ( " Command Sent "

# SCAN THE QR CODE WITH YOUR MOBILE PHONE

Barcode link for Smart_Home_Test	٦
http://ai2.appinventor.mit.edu/b/958d	
OK	
Note: this barcode is only valid for 2 hours. See the FAQ for info on how	

# AND THEN DOWNLOAD THE APPLICATION THROUGH THE LINK

NOW YOU CAN SEE IN DASH BOARD AT UBIDOTS THAT THERE IS A BOX WITH THIS

PIC



# NOW SPEAK TURN ON / TURN OFF AND IT WILL REACT TO YOUR VOICE TO CHANGE IT

# THIS IS OUR DATA OF ATTEMPTS OF TURNING ON AND OFF

