

Assignment Topic: Install node- red and print hello world

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Submitted by:

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Programme:

BBA (AI)

Course Name:

Foundation of AI

Semester:

1st

Deptt.

Submitted to:

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Date of Submission:



PRACTICAL – 5

Objective: Install node-red and print hello world.

Step 1: To get the node-red, the node.js is required to be installed in your pc. To check if node.js is installed, run ‘ node - -version’ in cmd.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.5247]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pc>node --version
v18.17.1

C:\Users\pc>
```

If not installed then go to the browser and download node.js.

```

Microsoft Windows [Version 10.0.19045.5247]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pc>node --version
v18.17.1

C:\Users\pc>npm install -g --unsafe-perm node-red

```

Step 2: Install the node-red with the below mentioned command. `npm install -g --unsafe-perm node-red`

Wait for the installation completion.

```

Microsoft Windows [Version 10.0.19045.5247]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pc>node --version
v18.17.1

C:\Users\pc>npm install -g --unsafe-perm node-red
npm warn cleanup Failed to remove some directories [
npm warn cleanup   "C:\\Users\\pc\\AppData\\Roaming\\npm\\node_modules\\.node-red-javascript",
npm warn cleanup   [Error: spawn operation not permitted, unlink 'C:\\Users\\pc\\AppData\\Roaming\\npm\\node_modules\\.node-red-javascript\\node_modules\\bcrypt-win32-x64-vc\\bcrypt-win32-x64-vc.node'] {
npm warn cleanup     errno: -4048,
npm warn cleanup     code: 'EPMEM',
npm warn cleanup     syscall: 'unlink',
npm warn cleanup     path: 'C:\\Users\\pc\\AppData\\Roaming\\npm\\node_modules\\.node-red-javascript\\node_modules\\bcrypt-win32-x64-vc\\bcrypt-win32-x64-vc.node'
npm warn cleanup   }
npm warn cleanup ]

added 1 package, and changed 310 packages in 3s
33 packages are looking for funding
  run `npm fund` for details

C:\Users\pc>

```

```

$ curl -X POST -u "apikey:{apikey}" \
--header "Content-Type: audio/flac" \
--data-binary @{path_to_file}audio-file.flac \
"{url}/v1/recognize"

```

File Edit View

Text to Speech(Practical -3).txt

File Edit View

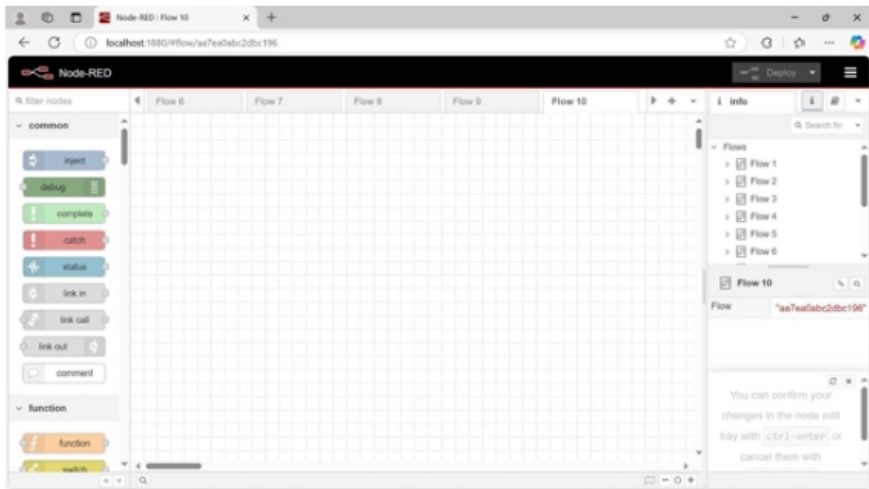
```

curl -X POST -u "apikey:{apikey}" \
--header "Content-Type: audio/flac" \
--data-binary @{path_to_file}audio-file.flac \
"{url}/v1/recognize"

```

Step 3: Run node-red on cmd.

Now access the given url on browser (127.0.0.1:1880 **or** localhost:1880)



Step 4: Drag and drop the nodes in the playground i.e. flow.

1. Inject node
2. Debug node

Speech to Text-w9 Active [Add tags](#)

Manage

- Getting started
- Service credentials
- Plan

Start by viewing the tutorial

[Getting started tutorial](#) [API reference](#)

Credentials

API key:
.....

URL:
<https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize>

for git Bash

```
curl -X POST -u "apikey:0G27Fys3CL8_UscBC8e6tCXqCZ8eWKJL1_OuShOG" \
--header "Content-Type: audio/wav" \
--data-binary @C:/Users/pc/hello_world.wav \
"https://api.au-syd.speech-to-text.watson.cloud.ibm.com/instances/5082370b-8ad4-412a-8c9e-3d70afc6e10e/v1/recognize"
```

Deploy

Search for

Flow 1
Flow 2
Flow 3
Flow 4
Flow 5
Flow 6

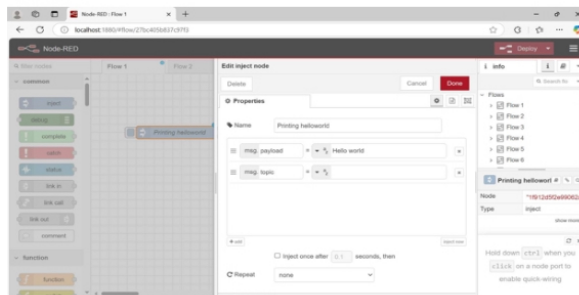
Flow 1

"27bc405b637c8793"

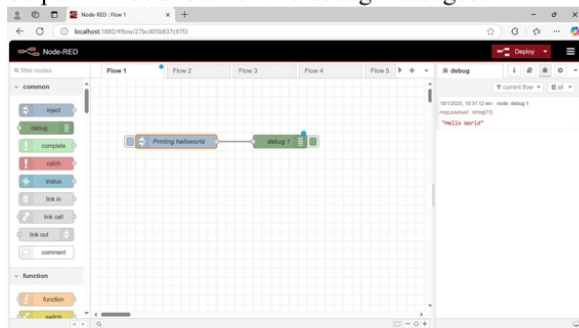
you can remove the
ed nodes or links with

delete

Step 5: Double click on inject node and change the datatype as string from dropdown and input “Hello World”.



Step 6: Deploy then click on the right button of the debug node and left button of the inject node. The output will be shown on the debug messages.



This completes the installation and the printing ‘hello world’ practical.