

# ORCAD CAPTURE LITE, 17.2

Prepared BY: Nafis Hyder Alam

# GETTING STARTED

OrCAD Capture - Lite - [Start Page]

File Design Edit View Tools Place SI Analysis Accessories Options Window Help

cadence

Start Page

signal simulation complexities in IoT, wearables and wireless mobile devices. [What's New](#)

Getting Started

Home

New Design

Open Design

New Project

Open Project

OrCAD Lite ✓  
Installed: 17.2-2016 Lite

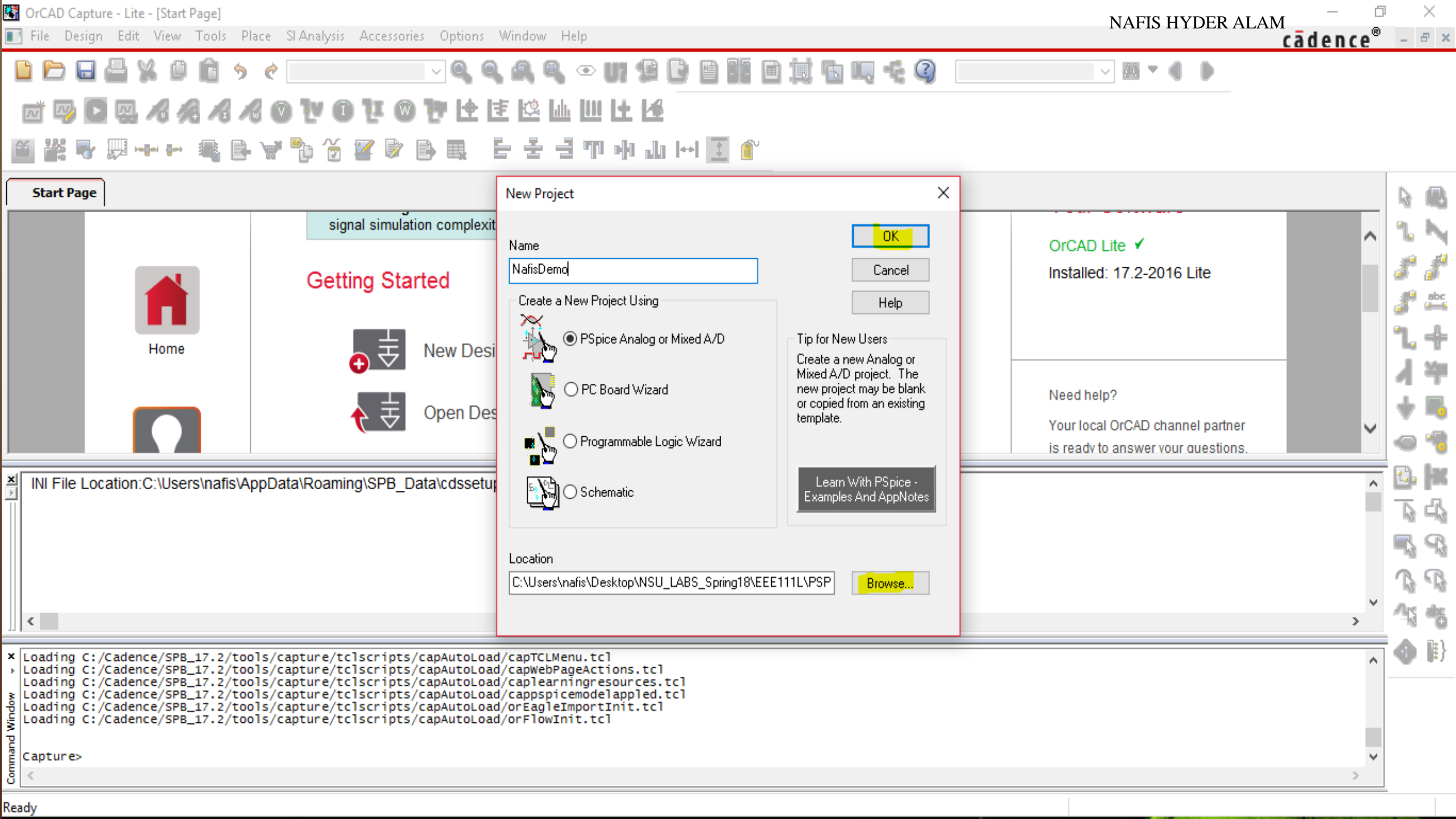
Need help?  
Your local OrCAD channel partner is ready to answer your questions.

INI File Location: C:\Users\nafis\AppData\Roaming\SPB\_Data\cdssetup\OrCAD\_Capture\17.2.0\Capture.ini

Command Window

Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capTCLMenu.tcl  
Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capWebPageActions.tcl  
Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capLearningResources.tcl  
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Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/orFlowInit.tcl

Capture>



## Start Page

signal simulation complexit

## Getting Started



Home



New Desi



Open Des

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## New Project

Name

NafisDemd

OK

Cancel

Help

Create a New Project Using

☒ PSpice Analog or Mixed A/D☐ PC Board Wizard☐ Programmable Logic Wizard☐ Schematic

Tip for New Users

Create a new Analog or  
Mixed A/D project. The  
new project may be blank  
or copied from an existing  
template.Learn With PSpice -  
Examples And AppNotes

Location

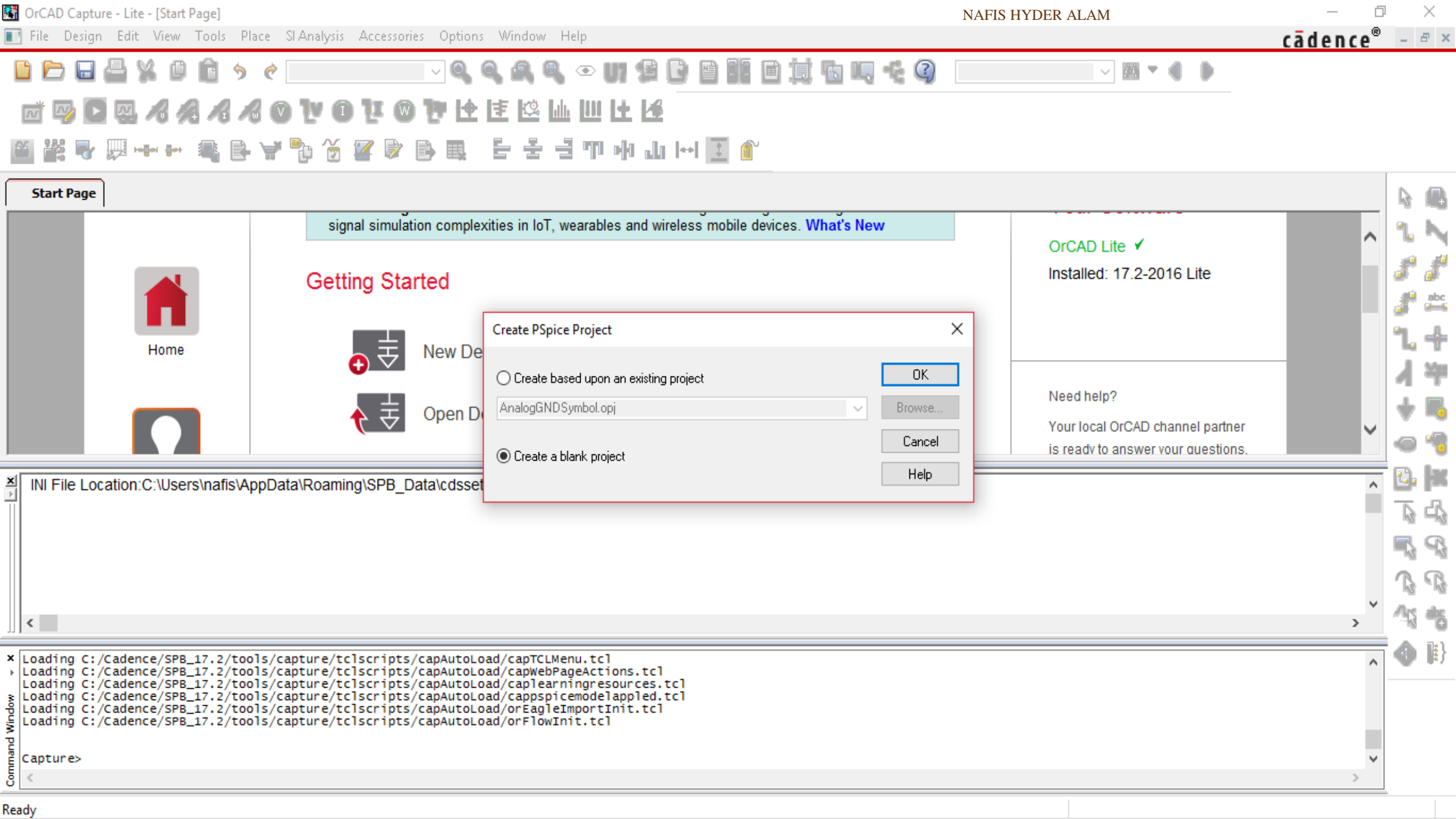
C:\Users\nafis\Desktop\NSU\_LABS\_Spring18\EEE111L\VPSP

Browse...

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Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capWebPageActions.tcl  
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Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/orFlowInit.tcl

Command Window

&lt;



## Start Page



Home

signal simulation complexities in IoT, wearables and wireless mobile devices. [What's New](#)

## Getting Started



New Design



Open Design

## Create PSpice Project

☐ Create based upon an existing project

AnalogGNDsymbol.opj

☒ Create a blank project

OK

Browse...

Cancel

Help

OrCAD Lite ✓

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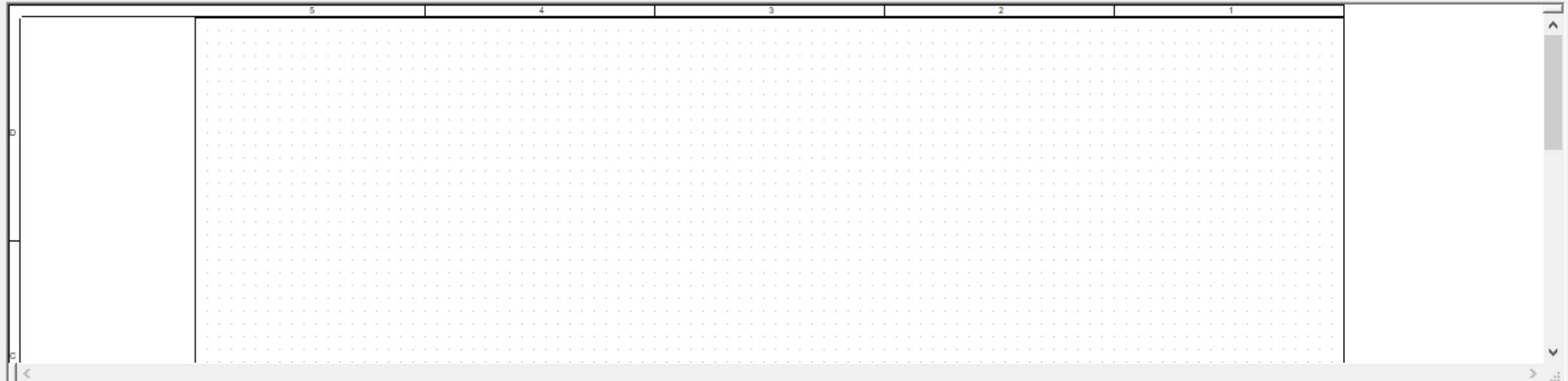
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Command Window



Start Page NafisDemo PAGE1

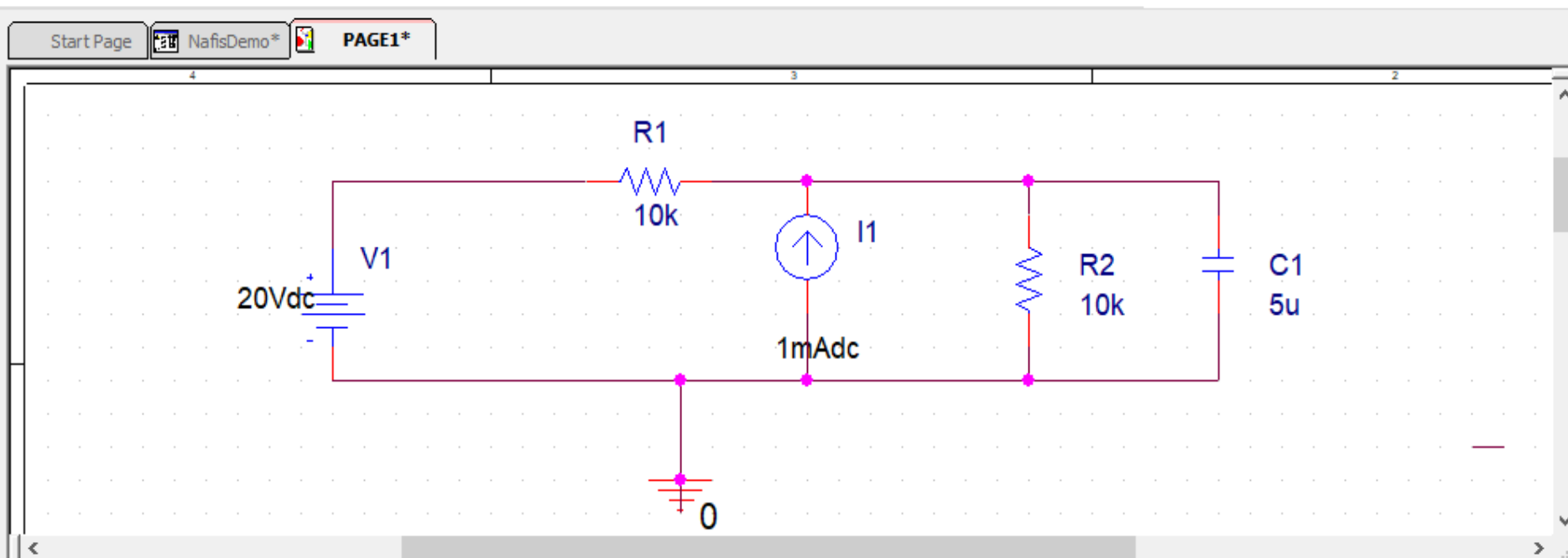


INI File Location: C:\Users\nafis\AppData\Roaming\SPB\_Data\cdssetup\OrCAD\_Capture\17.2.0\Capture.ini

Command Window

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- × Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capPspiceModelApplied.tcl
- × Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/orEagleImportInit.tcl
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(4.80, 1.80)

Command Window

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Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/orFlowInit.tcl

Capture&gt;

## Place Part

Part

C

Part List:

C/ANALOG  
c/ANALOG\_P  
C/DATACONV  
C/FILTSUB  
C228A/THYRISTR  
C228A3/THYRISTR  
C228B/THYRISTR  
C228B3/THYRISTR

Libraries:

1\_SHOT  
7400  
74AC  
74ACT  
74ALS  
74AS

Packaging

Parts per Pkg: 1

Part:

Type: Homogeneous

C?  
1n

☒ Normal ☐ Convert

+ Search for Part

# NETLIST

NAFIS HYDER ALAM

File Design Edit View Tools Place SI Analysis Accessories Options Window Help

cadence®



Start Page

NafisDemo\*

PAGE1\*

schematic1

```
1: * source NAFISDEMO
2: R_R1      N00147 N00154 10k TC=0,0
3: R_R2      0 N00154 10k TC=0,0
4: V_V1      N00147 0 20Vdc
5: I_I1      0 N00154 DC 1mA dc
6: C_C1      0 N00154 5u TC=0,0
7:
```

INFO(ORNET-1156): PSpice netlist generation complete

Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capTCLMenu.tcl  
Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/capWebPageActions.tcl  
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Loading C:/Cadence/SPB\_17.2/tools/capture/tclscripts/capAutoLoad/orFlowInit.tcl

Command Window

Place Part

Part

C

Part List:

C/ANALOG  
C/ANALOG\_P  
C/DATA CONV  
C/FILTSUB  
C228A/THYRISTR  
C228A3/THYRISTR  
C228B/THYRISTR  
C228B3/THYRISTR

Libraries:

L\_SHOT  
7400  
74AC  
74ACT  
74ALS  
74AS

Packaging

Parts per Pkg: 1

Part:

Type: Homogeneous

☐ Normal ☐ Convert

+ Search for Part

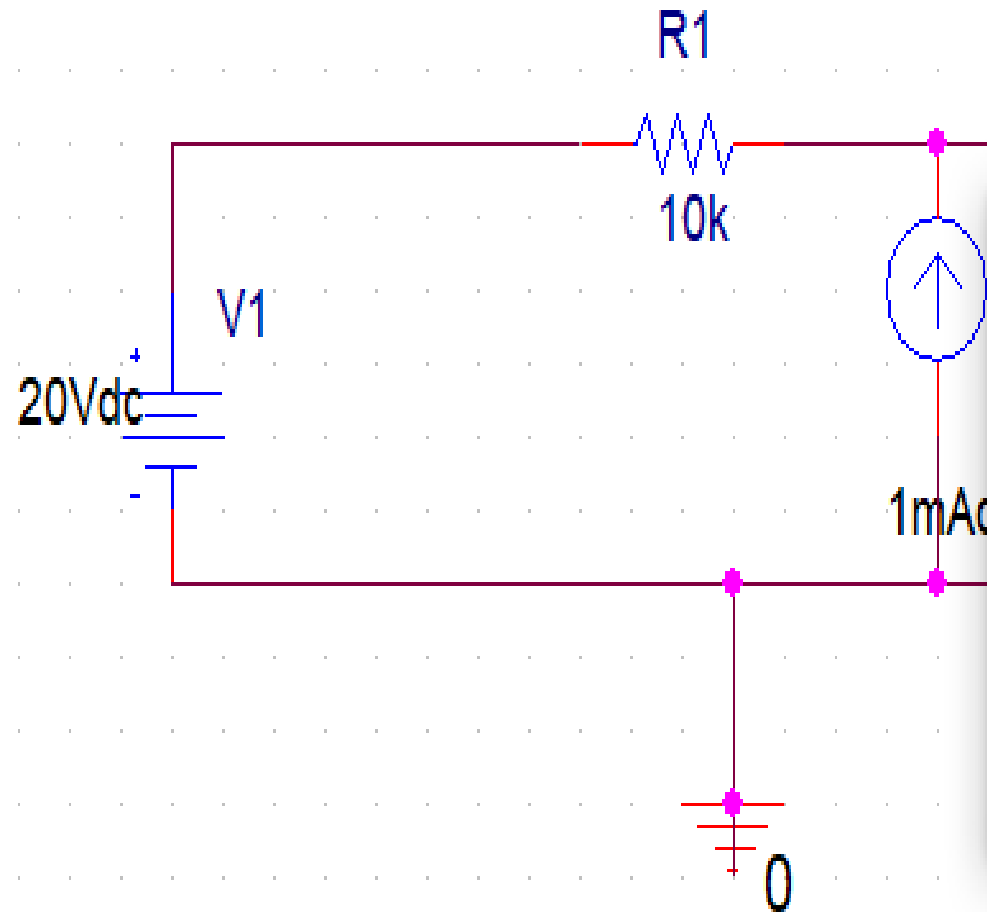
# NEW SIMULATION PROFILE

Start Page

NafisDemo\*

PAGE1\*

schematic1



## New Simulation

Name:

Nafis\_Demo

Create

Cancel

Inherit From:

none

Root Schematic: SCHEMATIC1



Simulation Settings - Nafis\_Demo

General

Analysis

Configuration Files

Options

Data Collection

Probe Window

Analysis Type:

DC Sweep

Options:

- ☒ Primary Sweep
- ☐ Secondary Sweep
- ☐ Monte Carlo/Worst Case
- ☐ Parametric Sweep
- ☐ Temperature (Sweep)
- ☐ Save Bias Point
- ☐ Load Bias Point

Sweep Variable

☒ Voltage source

Name:

V1

☐ Current source

Model type:

☐ Global parameter

Model name:

☐ Model parameter

Parameter name:

☐ Temperature

Sweep Type

☒ Linear☐ Logarithmic

Decade

☐ Value List

Start Value:

0

End Value:

20

Increment:

0.1

OK

Cancel

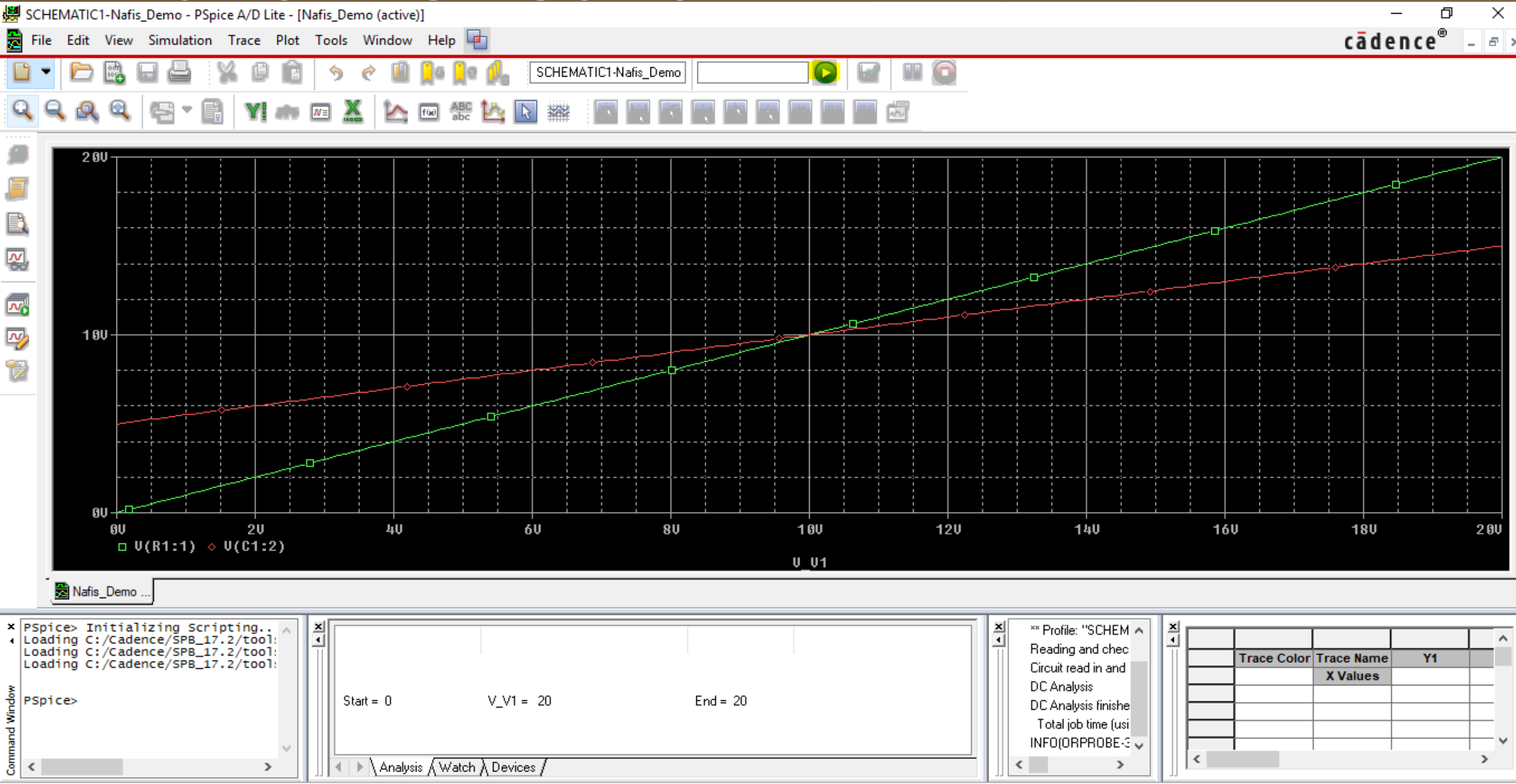
Apply

Reset

Help

C1  
5u

# SIMULATION OUTPUT



# DOWNLOAD LINK:

- ▶ <http://www.orcad.com/resources/download-orcad-lite>