



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY



DEPARTMENT OF ECE

Labview and its Applications

Date: 23.5.2022 to 27.5.2022

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul – Palani Highway, Dindigul – 624 002.

Email:ssmietdgl@gmail.com , Website: www.ssmiet.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CIRCULAR

19.05.2022

The Department of ECE has planned to conduct the Technology Teaching for Final year students on “**LABVIEW and its Application**” is scheduled to be conducted on 23.05.2022 onwards. The main objective of this course is to acquire software skills in designing and developing circuits . The Students are asked to use this opportunity effectively.

Course Title	Resource Person	Duration	No of hours
LABVIEW and its Application	VI Solutions Bangalore	23.05.2022 to 27.05.2022	40

~~Mr. M. Manikandan
Mr. V.P. JayFantic~~

Coordinators
Mr.M.Manikandan
Mr.V.P.JayFantic

1. H.E.B
19/5/22 2. Profel
R.K.Raja

Faculty In-charge
Dr.M.Jeyalakshmi
Mrs.G.Saranya

S.Karthigai Lakshmi

HoD/ECE
Dr.S.Karthigai Lakshmi

D.S. Senthil Kumaran

Principal
Dr.D.Senthil Kumaran

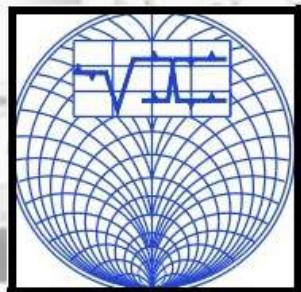
DEPARTMENT OF ECE

ORGANIZES

“LABVIEW and its Applications”

RESOURCE PERSON

**VI Solutions
Bangalore**



Date: 23-05-2022 to 27-05-2022

Time : 09.00am -04.00 pm

Venue: VLSI LAB

This is an Tentative Date. It may change due to Academic requirements.

Co-ordinators
Mr.M.Manikandan
Mr.V.P.Jay Fantin

HoD
Dr.S.Karthigai Lakshmi

Faculty Incharge
Mrs.M.Jeyalakshmi
Mrs.G.Saranya

Principal
Dr. D. Senthil Kumaran

All are cordially invited

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE

**Submitted to the Principal for Approval of Technology Teaching under
IETE students forum**

6.05.2022

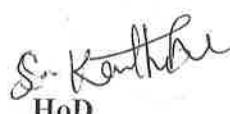
Sub: Seeking Approval for Hands on training on “LABVIEW and its Application” as a part of technology teaching- reg

Based on the requirement of students and to establish industry connect it is proposed to conduct Hands on training on LABVIEW and its Application for IV ECE students from **23.5.2022 to 27.5.2022(five days)**. VI solutions from Bangalore, a service provider of NI Technology providing this training. This will helpful for III and IV ECE students for their carrier as well as placement. **For the same as per the requirement of industry it is decided to collect the concession amount of Rs. 1250 per student for 5 days and we need to provide food and accommodation for one resource person in our campus.** The detailed budget and the details of the industry, courses with quotation are attached herewith.

S.No.	Particulars	Count	Cost (Rs.)
1.	Hands on training on LABVIEW(Rs 1250 for 5 days per student)	40 students	59000 (50000+9000 GST)
2	Food and Accomodation	1 resource person(5 days)	
Total			59000


Co-ordinator
6/5/22

M. Manikandan A/PL/ECE


HoD


Principal



LabVIEW and its Applications

OVERVIEW:

This Course will explore the LabVIEW environment and interactive analysis, dataflow programming, Data Acquisition system and IoT in a hands-on format.

COURSE OBJECTIVES:

- Use programming structures, data types, and the analysis in LabVIEW
- Debug and troubleshoot applications
- Use best programming practices for code reuse and readability
- Executing algorithms based on iterative process and condition driven application
- Students will get hands-on experience configuring and programming NI data acquisition hardware using NI-DAQmx and LabVIEW
-

GRAPHICAL SYSTEM DESIGN

Introduction to Graphical Systems Design using NI Technology – Hands on LabVIEW Programming concepts –Explore different data types – Troubleshooting and Debugging VI – Create and configure Case structures – Use cases of Decision Making Structures - sequential programming – Loops – Feedback Nodes – Shift Register – Creating and Leveraging Data Structures - Arrays and functions – Cluster and Functions – SubVI – Accessing Files in LabVIEW – File I/O Techniques.

DATA ACQUISITION SYSTEM and INTERNET OF THINGS

Introduction to Data Acquisition System – Building Blocks of Data Acquisition System - Hands-on NI DAQ – Data Acquisition & Logging (AI) – Data Acquisition & Control (AI & DO) – Acquisition & Linearization (AI – Sample on Demand) – Counters in Real-Time Applications – PWM & DAQ Counters – Interfacing Analog and Digital Sensor with DAQ – Data Logging – Introduction to IoT – communication Protocols for IoT – Passive Cloud – Firebase – Application development on IoT.

OUTCOME

- Experiment beyond the curriculum
- Ability to connect theory with real time applications
- Ability to learn, simulate, prototype and deploy using Integrated platform
- Acquire data from analog and digital sensors using NI hardware
- Apply advanced understanding of LabVIEW and the NI-DAQmx API to create applications

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Attendance Sheet - Technology Teaching on LABVIEW and its Application

S. NO	Register Number	Student Name	23.5.2022	24.5.2022	25.5.2022	26.5.2022	27.5.2022
			FN	AN	FN	AN	FN
1	922118106003	Ambika M	<i>Amika</i>	<i>Amika</i>	<i>Amika</i>	<i>Amika</i>	<i>Amika</i>
2	922118106005	Ashok Kumar Vishnu Prasad	<i>Ashok Kumar Vishnu Prasad</i>				
3	922118106008	Boomiika P	<i>Boomiika P</i>				
4	922118106022	Jeevan J	<i>Jeevan J</i>				
5	922118106025	Kalaiyaraasan P	<i>Kalaiyaraasan P</i>				
6	922118106026	Kainalesh Kannan G	<i>Kainalesh Kannan G</i>				
7	922118106021	Janasujith M	<i>Janasujith M</i>				
8	922118106701	Pavithra R	<i>Pavithra R</i>				
9	922118106029	Kavyaa S M	<i>Kavyaa S M</i>				
10	922118106030	Keerthana M	<i>Keerthana M</i>				
11	922118106034	Madhumitha R	<i>Madhumitha R</i>				
12	922118106035	Mani Shankar L	<i>Mani Shankar L</i>				
13	922118106036	Manojkumar C S	<i>Manojkumar C S</i>				
14	922118106037	Mohamed Akil J	<i>Mohamed Akil J</i>				
15	922118106039	Mohamedmubarak S	<i>Mohamedmubarak S</i>				
16	922118106041	Nalina P	<i>Nalina P</i>				
17	922118106042	Nalli Sneha C N	<i>Nalli Sneha C N</i>				
18	922118106043	Nishanth N	<i>Nishanth N</i>				
19	922118106046	Nivetha R S	<i>Nivetha R S</i>				
20	922118106048	Prabhu V	<i>Prabhu V</i>				

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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			FN	AN	FN	AN	FN	AN	FN	AN	FN	FN	AN	FN	AN		
21	922118106050	Priyadarshini M	M	A	M	A	R	A	R	A	R	R	A	R	A		
22	922118106055	Rameeja Beevi S	R	B	R	B	R	B	R	R	R	R	R	R	R		
23	922118106056	Ramya R	R	A	R	A	R	A	R	R	R	R	R	R	R		
24	922118106059	Saathanna G P	G	A	G	A	G	A	G	G	G	G	G	G	G		
25	922118106061	Safreen Fathima M	A	B	A	B	A	B	A	B	A	B	A	B	A		
26	922118106062	Sajitha V	V	S	V	S	V	S	V	S	V	V	V	V	V		
27	922118106065	Sangeetha K	K	S	K	S	K	S	K	K	K	K	K	K	K		
28	922118106067	Santhiya G	G	S	G	S	G	S	G	G	G	G	G	G	G		
29	922118106069	Sasipriya S	S	S	S	S	S	S	S	S	S	S	S	S	S		
30	922118106071	Sathish Kumar R	R	S	R	S	R	S	R	R	R	R	R	R	R		
31	922118106072	Seethapriya S	S	E	S	E	S	E	S	S	S	S	S	S	S		
32	922118106074	Sharmila S	S	H	S	H	S	H	S	S	S	S	S	S	S		
33	922118106075	Shivani S A	S	H	S	H	S	H	S	S	S	S	S	S	S		
34	922118106078	Sobika. V	V	S	V	S	V	S	V	V	S	S	S	S	S		
35	922118106079	Soundharya V	V	S	V	S	V	S	V	V	S	S	S	S	S		
36	922118106076	Siva Sakthi Balasub	AB	S	AB	S	AB	S	AB	S	AB	S	AB	S	AB		
37	922118106081	Sowmiya K	K	F	K	F	K	F	K	K	K	K	K	K	K		
38	922118106082	Sri Sabrina K	AB	A	AB	A	AB	A	AB	A	AB	A	AB	A	AB		
39	922118106083	Surya S	S	S	S	S	S	S	S	S	S	S	S	S	S		
40	922118106084	Sweetha J	J	S	J	S	J	S	J	J	J	J	J	J	J		

~~Coordinators~~

~~S. S. N~~
HOD/ECE



4
VI
SOLUTIONS

V I SOLUTIONS

#22, 2nd Floor, AKAI Plaza, D Rajagopal Road,
Sanjay Nagar Bangalore - 560 094
Tel: 080 - 4094 8484

QUOTATION

QUOTE REF - VIS/SRV/598

Date: 28-APR-2022

Valid Until - 28-MAY-2022

GSTIN # 29AFZPV6042H1ZJ

PAN# AFZPV6042H

To

The Principal,
SSM Institute of Engineering and Technology,
Dindigul,
Tamilnadu – 624 002

(All Prices are in Indian Rupees)

SN	DESCRIPTION	#DAYS	#PARTICIPANTS	UNIT PRICE PER DAY PER PARTICIPANT	LINE TOTAL
1	Hands on Training on LabVIEW	05	40	250.00	50,000.00
SUB TOTAL					50,000.00
IGST 18%					9,000.00
TOTAL (ROUNDED OFF)					59,000.00

Amount in Words:

Rupees Fifty-Nine Thousand Only (Rounded Off).

Terms and Conditions:

Media & Manuals: Please note that printed manuals are not available for all the software modules.

Taxes: Prices include all taxes.

Ordering Information: Purchase order to be in the name of:

VI Solutions,
#22, 2nd Floor, AKAI Plaza, D Rajagopal Road,
Sanjay Nagar, Bangalore - 560 094
Phone: +91-80-40948484, +91-99863-87986

Delivery: 4-6 Weeks from the date of receipt of purchase order, the delivery period extension to be granted in the event of delayed processing of your order with The Principals due to certain reasons, viz., export regulations compliance, etc., which would be communicated appropriately.

Payment: 100 % Prepayment in favour of "VI SOLUTIONS" payable at Bangalore. If payment mode is cheque/DD, to be drawn in favor of "VI Solutions" payable at Bangalore.

Account details for Online Payment:



Name: VI Solutions
BANK: HDFC
BRANCH: MILLERS ROAD/CUNNINGHAM ROAD
A/C #: 12082560001144
RTGS/NEFT /IFSC: HDFC0001208

Correspondence Details: Please send all your correspondences to:

VI Solutions,
HEAD OFFICE:
#22, 2nd Floor, AKAI Plaza, D Rajagopal Road,
Sanjay Nagar, Bangalore - 560 094
Phone: +91-80-40948484, +91-99863-87986

All the above conditions are subject to Force Majeure.

Sincerely,


Sunil Kumar. V.
Proprietor
VI Solutions

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

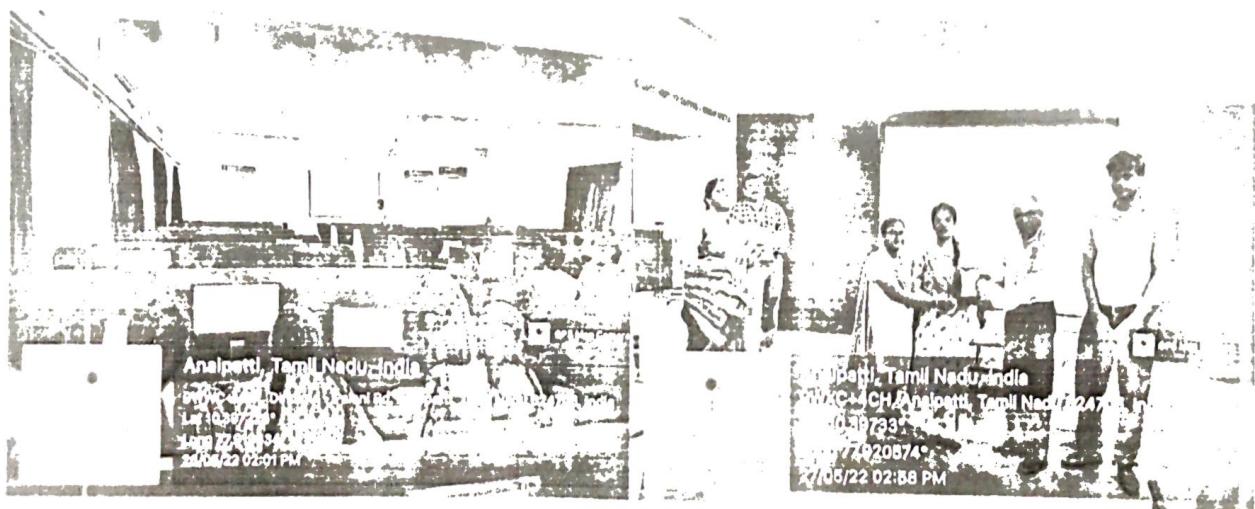
THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

Labview and its Applications

23.5.2022 to 27.5.2022

REPORT

The department of ECE, SSMIET conducted Technology training for final year students on LABVIEW and its Application under IETE Students Forum in association with VI solutions Bangalore from 23.05.2022 to 27.05.2022 (5 days). Mr. Esakki Raja S, Senior Application Engineer, VI Solutions, Bangalore trained the students through hands on mode. Totally 40 students were actively participated. The resource person trains the students in effective manner by discussing real time problems. An Exam was conducted at the last day of training. It consists of 20 multiple choice question and one coding program in Lab view. Three teams were shortlisted based on their scores in final exam. S. Surya and G. Santhiya of IV ECE got first place among three teams.



Resource person Mr. Esakki Raja S giving training to the students

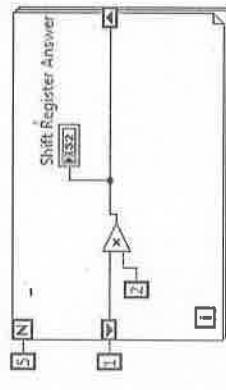
Principal Dr. D. Senthil Kumaran Presenting a winning shield to the winners

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ECE
HANDS ON TRAINING IN LABVIEW
23.5.22 TO 27.5.22
EVALUATION EXAM QUESTION


4. Which equation is equivalent to the code?


Name of the Student:
Register number:
Year & Dept:

1. What is the value in Shift Register Answer after the following code has executed?



- a. 16
b. 24
c. 32
d. 10

2. Which of the following terminals can control how many times a For loop executes?

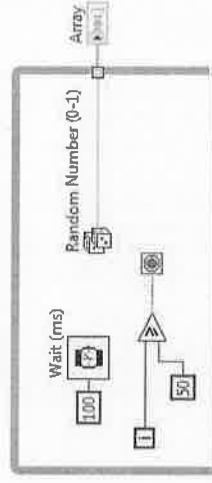
- a. b. c. d.

3. Which data type is not accepted by the case selector terminal on a case structure?

- a. Arrays
b. Boolean
c. Enum
d. Numeric

- a. $x = \sqrt{a \times ((a + b)^2 - (c - 1))}$
- b. $x = \sqrt{a \times ((c - 1) - (a + b)^2)}$
- c. $x = \sqrt{a \times ((a + b)^2 - (c - 1))}$
- d. $x = \sqrt{a^2 \times ((a + b)^2 - (c - 1))}$

5. Which of the following statements is TRUE regarding the execution of the following code?



- a. The loop will iterate 51 times.
b. The loop will iterate 50 times.
c. The loop will iterate 49 times.
d. A For Loop that has a 50 wired to the count terminal will perform the same operation.

6. What is the colour representation of Fractional Numeric?
- a. Blue
b. Green
c. Orange
d. Pink
7. Which of the following is commonly used to bring data inside and outside the structure(s)?
- a. Shift registers
b. Tunnels
c. SubVIs
d. Local Variable

8. A "hollow" output tunnel will appear on the edge of a case structure because...?
- the wrong data type is wired to it
 - there is not a wire leading away from it
 - one or more cases do not have a wire connected to it
 - None of the above

9. Which is only available on the block diagram?
- Control
 - Constant
 - Indicator
 - None of the Above

10. The Wait function can be added to While Loops:
- To free up available memory
 - To allocate memory used by the CPU
 - To allow the processor time to complete other tasks
 - To reserve which processor the code is running on

11. What is the red dot called?

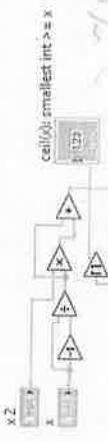


- Coercion Dot
- Data truncation Dot
- Data typecast Dot
- Buffer allocation Dot

12. What are the three main elements of the waveform data type?

- dt, X, Y
- t_0, dt, Y
- t_0, dt, dy
- t_0, dt, dQ

13. In the following VI, what will be the execution order of functions?



14. What is the value in K after the following code has executed?

- a. 140
b. 30
c. 200
d. 270

15. Expand LabVIEW?

- Laboratory Virtual Instrument Electrical Workbench
- Laboratory Virtual Instrument Engineering Workbench
- Laboratory Virtual Instrument Electrical Workspace
- Laboratory Virtual Instrument Engineering Workspace

16. Which DIO line in a MyDAQ can be used to Control Motor Speed Signal?

- DIO1
- DIO3
- DIO5
- DIO7

17. What will be the voltage Range of Analog Input in myDAQ?

- 0 to +5 V
- 0 to +10 V
- 5 to +5 V
- 10 to +10 V



18. Which parameter need to be considered while choosing the hardware?

- a. # Of Channels
- b. Channel Range
- c. Sampling Rate
- d. All the Above

19. Expand JSON?

- a. Java String on Notation
- b. Java Script on Notation
- c. Java String on Numeration
- d. Java Script on Numeration

20. Which variable is used to share a data between PC and Mobile?

- a. Local Variable
- b. Global Variable
- c. Shared Variable
- d. Universal Variable

SIMULATION CHALLENGE COMPETITION

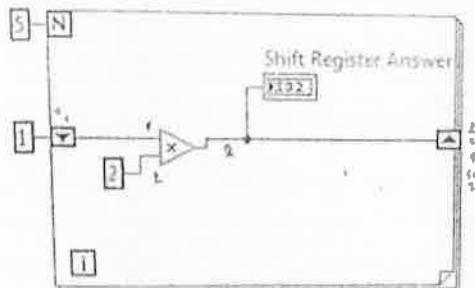
DEPARTMENT OF
HANDS ON LEARNING IN LABVIEW
23.05.22 - 04.06.22
EVALUATION EXAM QUESTION

Salieen Fathima M

922118106061

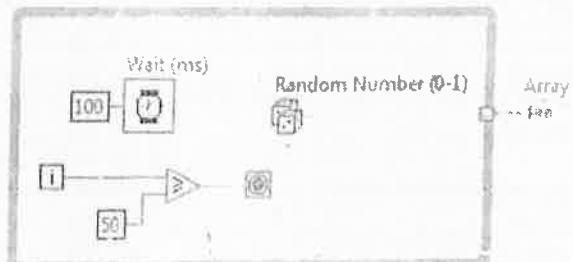
14p

- ✓ 1. What is the value in Shift Register Answer after the following code has executed?



a. 16 b. 24 c. 32 d. 10

- ✓ 5. Which of the following statements is TRUE regarding the execution of the following code?



- a. The loop will iterate 51 times.
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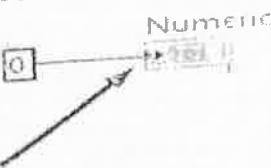
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- ✓ 10. The Wait function can be added to While Loops

- a. To free up available memory
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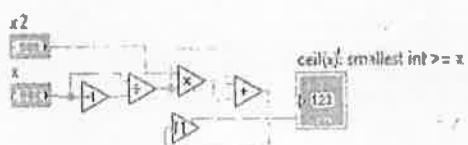


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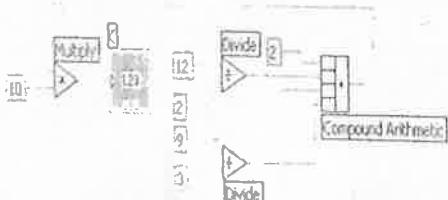
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- c. t0,dt,Y
- d. t0,dt,dy

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- b.
- c.
- d.

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- a. 0 to +5 V
- b. 0 to +10 V
- c. -5 to +5 V
- d. -10 to +10 V

18. Which parameter need to be considered while choosing the hardware?

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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE

Academic Year 2021-2022

Lab View and its Applications - Assesment marks-23.5.2022 to 27.5.2022

Year : IV / A&B&C

Test Date : 27.5.2022

S.No	Register No.	Name of the Student	Marks out of 20
1	922118106003	AMBIKA M	12
2	922118106005	ASHOK KUMAR VISHNU PRASAD	10
3	922118106008	BOOMIKA P	13
4	922118106021	JANASUJITH M	15
5	922118106022	JEEVAN J	12
6	922118106025	KALAIYARASAN P	11
7	922118106026	KAMALES KANNA G	12
8	922118106701	PAVITHRA	17
9	922118106029	KAVYAA S M	18
10	922118106030	KEERTHANA M	18
11	922118106034	MADHUMITHA R	18
12	922118106035	MANI SHANKAR L	12
13	922118106036	MANOJKUMAR C S	13
14	922118106037	MOHAMED AKIL J	16
15	922118106039	MOHAMEDMUBARAK S	15
16	922118106041	NALINA P	17
17	922118106042	NALLI SNEHA C N	18
18	922118106043	NISHANTH N	15
19	922118106046	NIVETHA R S	18
20	922118106048	PRABHU V	12
21	922118106050	PRIYADHARSHINI M	18
22	922118106055	RAMEEJA BEEVI S	17
23	922118106056	RAMYA R	15

24	922118106059	SAATHANNA G P	18
25	922118106061	SAFREEN FATHIMA M	18
26	922118106062	SAJITHA V	18
27	922118106065	SANGEETHA K	17
28	922118106067	SANTHIYA G	17
29	922118106069	SASIPRIYA S	16
30	922118106071	SATHISH KUMAR R	12
31	922118106072	SEETHAPRIYA S	15
32	922118106074	SHARMILA S	15
33	922118106075	SHIVANI S A	16
34	922118106076	SIVA SAKTHIBALAN	12
35	922118106078	SOBIKA V	14
36	922118106079	SOUNDHARYA V	16
37	922118106081	SOWMIYA K	14
38	922118106082	SRI SABARINA K	15
39	922118106083	SURYA S	18
40	922118106084	SWEETHA J	14



Graphical Programming using LabVIEW

Feedback Form

Participant Name : Sajitha .V
Year & Department : IV - ECE
College : SSM IET
Mobile No : 9600425740
Email Id : sajithav612@gmail.com

1. Virtual Instrumentation concept explanation	Poor	Average	Good	Excellent <input checked="" type="checkbox"/>
2. Time Maintenance for each session	Poor	Average	Good	Excellent <input checked="" type="checkbox"/>
3. How do you feel about LabVIEW Programming	Poor	Average	Good <input checked="" type="checkbox"/>	Excellent
4. Training done on LabVIEW (all the days)	Poor	Average	Good <input checked="" type="checkbox"/>	Excellent
5. Course Material Provided	Poor	Average	Good <input checked="" type="checkbox"/>	Excellent
6. Cost of the Course	Poor	Average	Good	Excellent <input checked="" type="checkbox"/>
7. Confident on LabVIEW Programming for Further project / Lab Experiments work	Poor	Average	Good <input checked="" type="checkbox"/>	Excellent
8. Doubt cleared in each session	Poor	Average	Good	Excellent <input checked="" type="checkbox"/>
9. Audio & Visualization effects	Poor	Average	Good	Excellent <input checked="" type="checkbox"/>
Overall Performance	Good		Excellent	<input checked="" type="checkbox"/>

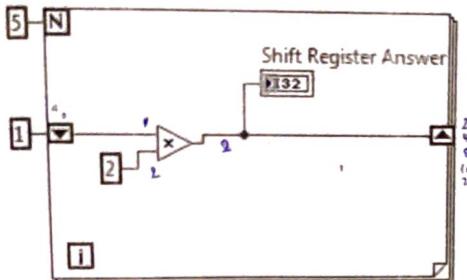
Comments about workshop :

Training was good and all the doubts were cleared in a nice manner.

V. Sjt
Signature

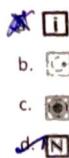


- ✓ 1. What is the value in Shift Register Answer after the following code has executed?



a. 16 b. 24 c. 32 d. 10

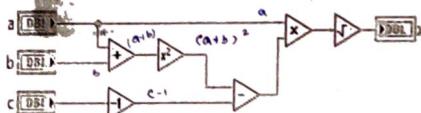
- ✓ 2. Which of the following terminals can control how many times a For loop executes?



- ✓ 3. Which data type is not accepted by the case selector terminal on a case structure?

a. Arrays b. Boolean
c. Enum d. Numeric

- ✓ 4. Which equation is equivalent to the code?



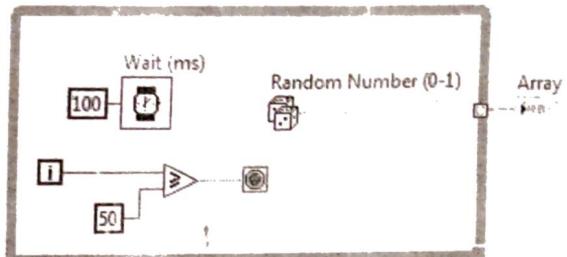
~~a~~ ✓ $x = \sqrt{a} \times ((a+b)^2 - (c-1))$

b. $x = \sqrt{a} \times ((c-1) - (a+b)^2)$

c. $x = \sqrt{a} \times ((a+b^2) - (c-1))$

d. $x = \sqrt{a^2} \times ((a+b)^2 - (c-1))$

- ✓ 5. Which of the following statements is TRUE regarding the execution of the following code?



- a. The loop will iterate 51 times.
b. The loop will iterate 50 times.
c. The loop will iterate 49 times.
d. A For Loop that has a 50 wired to the count terminal will perform the same operation.

- ✓ 6. What is the colour representation of Fractional Numeric?

a. Blue b. Green c. Orange d. Pink

- ✓ 7. Which of the following is commonly used to bring data inside and outside the structure(s)?

a. Shift registers b. Tunnels
c. SubVIs d. Local Variable

- ✓ 8. A "hollow" output tunnel will appear on the edge of a case structure because...?

- a. the wrong data type is wired to it
b. there is not a wire leading away from it
c. one or more cases do not have a wire connected to it
d. None of the above

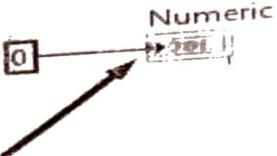
- ✗ 9. Which is only available on the block diagram?

- a. Control b. Constant c. Indicator
d. None of the Above

- ✗ 10. The Wait function can be added to While Loops:

- a. To free up available memory
b. To allocate memory used by the CPU
c. To allow the processor time to complete other tasks
d. To reserve which processor the code is running on

11. What is the red dot called?

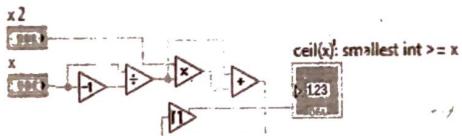


- a. Coercion Dot
- b. Data truncation Dot
- c. Data typecast Dot
- d. Buffer allocation Dot

12. What are the three main elements of the waveform data type?

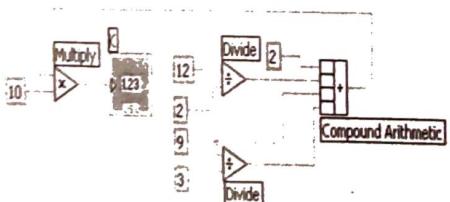
- a. dt,X,Y
- b. t0,X,Y
- c. t0,dt,Y
- d. t0,dt,dy

13. In the following VI, what will be the execution order of functions?



- a.
- b.
- c.
- d.

14. What is the value in K after the following code has executed?



- a. 140
- b. 30
- c. 200
- d. 270

15. Expand LabVIEW?

- a. Laboratory Virtual Instrument Electrical Workbench
- b. Laboratory Virtual Instrument Engineering Workbench
- c. Laboratory Virtual Instrument Electrical Workspace
- d. Laboratory Virtual Instrument Engineering Workspace

16. Which DIO line in a MyDAQ can be used to Control Motor Speed Signal?

- a. DIO1
- b. DIO3
- c. DIO5
- d. DIO7

17. What will be the voltage Range of Analog Input in myDAQ?

- a. 0 to +5 V
- b. 0 to +10 V
- c. -5 to +5 V
- d. -10 to +10 V

18. Which parameter need to be considered while choosing the hardware?

- a. # Of Channels
- b. Channel Range
- c. Sampling Rate
- d. All the Above

19. Expand JSON?

- a. Java String on Notation
- b. Java Script on Notation
- c. Java String on Numeration
- d. Java Script on Numeration

20. Which variable is used to share a data between PC and Mobile?

- a. Local Variable
- b. Global Variable
- c. Shared Variable
- d. Universal Variable



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