

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai |Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LABVIEW AND ITS APPLICATIONS

on phone of the ph

Dr.D.SENTHIL KUMARAN, w.B., Pb.D., (MUS).,
Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.



SSM INSTITUTE OF ENGINEERING AND



TECHNOLOGY

DEPARTMENT OF ECE

Labview and its Applications

Date: 23.5.2022 to 27.5.2022

	INDEX	
S. No.	Content	Page No.
1	Circular	2_
2	Approval letter	3
3	Syllabus	6
4	Participants Attendance	8
5	Report with Photo	7
6	Assessment question paper	
7	Sample assessment	11
8	Assessment mark statement	14
9	Feed Back from participants	16
10	Sample Certificate	17



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (190), Palani Road, Dindigul - 624 002



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	40
жррпсацоп		27.05.2022	

Mr.M.Manikandan

Mr.V.P.JayFantin

SS + DINDIGUL

Dr.M.Jeyalakshnunearing and Jack

Mrs.G.Saranya

Qr.S.Karthigai Lakshmi

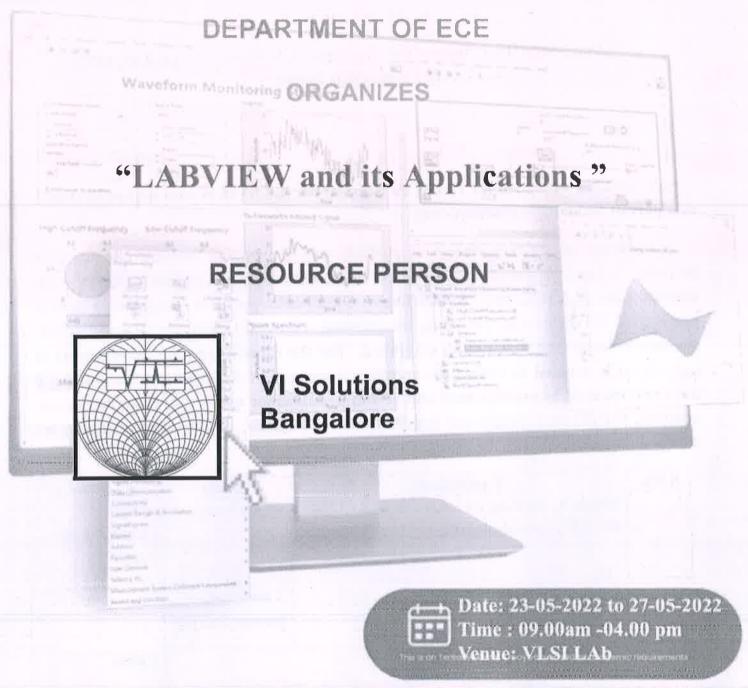
Ifr.D.Senthil Kumaran

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po),

Palani Road, Dindigul - 624 002.





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

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., [NUS]

All are cordially invitation of Engineering and Technology

Kuttathupatti Village, Sindalagundu (Po),

Palani Road, Dindigula 624 000



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 (Al – 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

ONDIGUL-624

Corporate office: # 22, 2nd Floor, AKAI Plaza, Sanjaynagar, Bengaluru, Karnataka 560094 Principal Phone: 91-80-40948484 www.vischeingrang Email: supporter-polutions.org L KUMARAN, M.E., Ph.D., (NUS)

Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.



(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2021-2022

Course Name: LabVIEW and its applications

Course Duration: 40 hours

Year Offered: 2021-2022

Course Instructors: Mr. Esaki Raja,

Senior application Engineer, VI Solutions, Bangalore.

Course Outcome:

On completion of the course, students will be able to execute algorithms based on iterative process, condition driven applications and also will get hands-on experience configuring and programming NI data acquisition hardware using NI-DAQmx and labVIEW.

Course Type: Self Framed/Collaboration with Industry

Assessment Mode

Attendance: 40 hours

Number of Participants: 40

Scheme of Exam: MCQ

Course Co-ordinators

Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (HUS)

Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu Hoja

Palae: Road Desargui 02-002.



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING Attendance Sheet - Technology Teaching on LABVIEW and its Application Dindigul - Palani Highway, Dindigul - 624 002.

_	Kegister		23.5.2022	022	74.5	24.5.2022	72.3	7707.0.07	104	707:07		
	Number	Student Name	F	AN	F	AN	FN	AN	E	AN	N.	N.
5	922118106003	Ambika M	gross of	THE WAY	400	Just to	TE A	No.	(Mary		No.	Z
	922118106005	Ashok Kumar Vishnu Prasad	Hartishan Orayon	To the state of th	Sept.	A VANA	40	A COLON	2000	3000	2000	3000
	922118106008	Воопліка Р	Carlo.	Park.	Barlow	1 3	Sparity Starting	2	S Salar	(303)	N. A.	
-	922118106002	Jeevan. I	1	AB		A	Sonor .	James J.	format.	100	L' Seen	1
-	922118106015	Kalaiyarasan P	1	AB		\wedge	12	2	32	3	{ =	
-	922118106026	-	N	33		1	A A	1		>		1
-	922118106021	Janasujith M	my	Smile	DING	much	Sept.	my di	J. Am	7	200	2
-	922118106701	Pavithra R	P. Paritire	Row Hre R. Parithe	-P. Park	o Perfavithe	2 Barth	- (M)	Todow M	4 M Maure	NO.OR	====
-	922118106029	Kavyaa S M	1	N.	0		3		SHO	7,	A. A.	Year H
1	922118106030	Keerthana M	COCATA	V. C.	Ker Ker	AB	Now!	3	AND A	Justha .	1	Los of
1	922118106034 ·	. Madhumitha R	TAN AN	The state of the s	4	AB.	Seo	3	ST. PA	C. J.	+	
	922118106035	Mani Shankar L	L. W.C.	一角	1	< !	0	04	\$ # R	7 7 7	2	A 0. A
	922118106036	Manojkumar C S	多百	至	金	8	SK,		THE STATE OF THE S	201	4	
	922118106037	Mohamed Akil J	c AB	1	3	THE T	N D	1	A 25	Ca L	XX	E
K	922118106039	Mohamedmubarak S	No Co	1	3/3	A A B	X	1	0	200	1	ON CONTRACTOR
	922118106041	Nalina P	100	N. V.	N	るる		A V	1	THE STATE OF THE S	FS/10/	Total Lie
	922118106042	Nalli Sneha C N	THE PERSON NAMED IN	2	3	A 63	N.O.	3000	2 2	3-	2	
1	922118106043	Nishanth N	8	*	3	*	See Le	2	1	13		HOLE A
	922118106046	Nivetha R S	1750			2	3		Post	1 50		1
1 =	922118106048	Prabhu V	G.	788	A A	NOW.	E CO		N. A. S.	NAGAMIY	O U do d'u	

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po),

Paleni Road, Dindigul - 624 002,

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING Dindigul - Palani Highway, Dindigul - 624 002.

Attendance Sheet - Technology Teaching on LABVIEW and its Application

oń	Register		23.5.2022	022	24.5	24.5.2022	25.5	25.5.2022	26.5	26.5.2022	27.	27.5.2022
ON	Number	Student Name	FN	AN	N	AN	FN	AN	R	AN	K	1
£}	922118106050	Priyadharshini M	とち 区野	李	MEST	MED MAD	ALIEN STATES	お母がいた場か	38			
22	922118106055	Rameeja Beevi S	77.	\$7.	8 P.	8P4 8.P4 8R4	AB	AB	parriet	Rameyo	d fee	de Parrela
23	922118106056	Kamya R		Same	arry Carry Roung	Reuny	Ramya	Ramyo	Some	commit Ramy on Rown	Room	Rans
77	922118106059	Saathanna G P	がなった	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2000	Car Scall	GRYS.	GREATING	C 8 50 5	J. P. Sak	6.2 3	
	922118106961	Safreen Fathima M &	-	AB	かやり	大家日	るる	であるかるこれをい	なる	のかかの	できる	である
26	922118106062	Sajitha V	20.7	18	-	>	1. P. V.	ベフキシー	Ž.	Vides.	क्री	N. C.
27	922118106065	Sangeetha K	なるととなる	3	A ST	· S	AB	48	Killy	*	XENT	T T T T T T T T T T T T T T T T T T T
200	922118106067	Santhiya G	C.S. Mirk Collins	THE STATE OF THE PERSON AND PERSO	1000	Solar Color	200	James Bloom B.	Table 1	Tra Con	G. S. S.	SEAN P
62	922118106069	Sasipriya S	BS8 485	To So	~	ASS.	2000 2000 2000 2000 2000 2000 2000 200	8.8 28.8 12.8 12.8 12.8 12.8 12.8 12.8 1	888°	rs V	Mark 9	Satur
(30)	922118106071	Sathish Kumar R	R. Sahing R. Sahindag Sahing AB	Jan Jan	A SOFT	A.A.B.	AB	AB	R School Continue	-00	8.98.4P	A which
33	922118196072	Seethapriya S	greetly for the gross	12-26	alisa la	2 xxx	Quarter!	the so	Phothar		and a	1000
S	922118106074	Sharmila S	ses the ses	tyss	Sign	1000	*SOS	485	2027	785	100	500
W. (2)	9221181106075	Shivani S A	A. Andria	A SPAN	となっていかっと	A Alling	No.	A CONTRACT		A. Shirt	* 1 E	(α)
T.	9221181106078	Sobika. V	N. S. S. S. S. S. S.	\$ 5.7	188		361	188	3	Saper	1 88	87
35	9221181106079	Soundharya V	C.J.V C.J.V.P.J.	?.さる	1 to		つき	K-4V	مل	ハナーロバド	AB	NB.
36	922118106076	Siva Sakthi Balanss AB	Ulanes AB	AB	AB 81 2	T AB	6.8.824	68 82 8 8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8	A 8 846	N. K.	X8.8.4	36 8
37	922118106081	Sowmiya K	かられたのよたの	はなる	K.S	ナイを	X	如人子四人不同人子。	4	1.2	275	A P
38	922118106082	Sri Sabarina K	AB	A B.	AB Ket	K.BYKS	K.S.	100	K87	1.87	大ると	X87
39	922118106083	Surya S	SKENNIN	X	58-88	35	2502	200	158 X	200 B	SS 8	58 12
40	922118106084	Sweetha J	Tage of			N Y	O V	A.	in the second	200		
	1		leu) salig)	STEEL N	DI.D. SENTETL KUMARAN M. 34. D. MILLO	B at D Mill) 8	<	7
	/ NI AI		7750	A 1000	-	P. C.	CARL CHARGE TO A	THE PERSON NAMED IN	D. 144. D. 1110		1 1 2	7

Coordipators

HOD

SSM institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po),

Palari Road, Dindigui - 624 002.

SOLUTIONS

V | SOLUTIONS

#22, 2nd Floor, AKAI Plaza, D Rajagopal Road, Sanjay Nagar Bangalore = 560 094

Tel: 080 - 4094 8484

QUOTE REF VIS/5RV/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 Bather 810.

Account details for Online Payment:

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)

SSM Institute of Engineering and Technology Kuttanupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

Ton B

SQUITORS

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

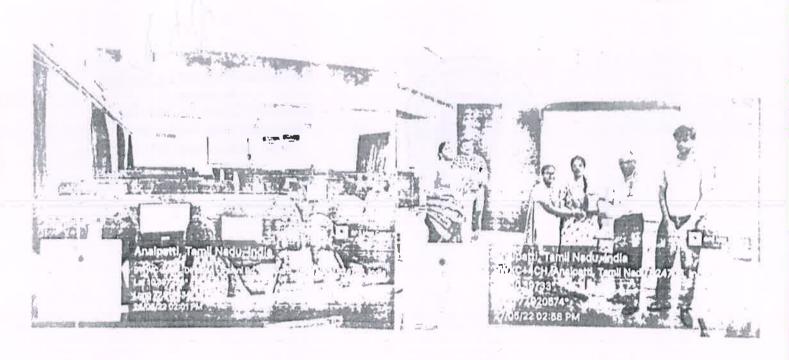
trainearing and action of the state of the s

Dr.D. SENTROL KUMARAN, ME, Ph.D., (NUS)

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Pa), Palani Road, Dindigul - 624 002.

DEPARTMENT OF FLECTRONICS AND COMMUNICATION ENGINEERING THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS Labyiew and its Applications 23.5.2022 to 27.5.2022 REPORT

The department of ECE, SSMIEF 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

WSS + DINDIGUI

the students

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

> Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUST Principal SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002

HANDS ON TRAINBING IN LABVIEW DEPARTMENT OF ECE

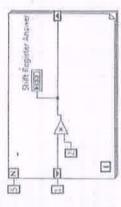
EVALUATION EXAM QUESTION 23.5.22 TO 27.5.22

Name of the Student:

Register number:

Year & Dept:

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



b, 24

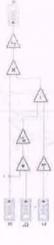
C. 32 d. 10 2. Which of the following terminals can control how risiny times a For loop executes?

- 3. Which data type is not accepted by the case selector terminal on a case structure?
 - a. Arrays
 - b. Bollean
 - c. Enum

d. Numeric

4. Which equation is equivalent to the code?

FOLUTIONS



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

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

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

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 SO wired to the count terminal will perform the same operation
- 6. What is the colour representation of Fractional Numeric?

- C. Orange Green
- D. Pink

owing is commonly used to bring data ins

Principal Technology "DINDIGUL -624 000.

Dr.D.SENTHIL KUMARAN, M. B., Ph.D., (NUS)

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

- 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
- a one or more cases do not have a wire connected to !:
 - 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 dtXY
- L tox,Y
- d. to,dt,dy c. 10,dt,Y
- 13. In the following VI, what will be the execution order of functions?





- c. 200

a. 140

b, 30

- 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. DI03
- c. DIO5

d. Di07

- 17. What will be the voltage Range of Analog Input in myDAQ?
 - b. 0 to +10 V a. 0 to +5 V
- d. -10 to +10 V c. -5 to +5.V



\$5M institute of Engineering and Technology Luttethupatti Village, Sindalagundu (Po), Patant Road, Dindigut- 624 002,



- a. # Of Channels
- b. Changel 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
- 20. Which variable is used to share a data between PC and Mobile? d. Java Script on Numeration
 - a. Local Variable
- b. Global Variable
- c. Shared Variable
- d. Universal Variable

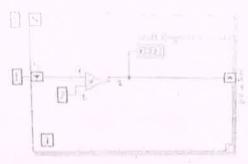


D. D. SENTHIL KUMARAN, KE., PLD., (NUS)

SSM Institute of Engineering and Technology Kutiathupattı Village, Sindalaguzdu (Po), Palani Road, Dindigul - 624 002. Principal



Michigan of the Salaran Annual



a. 16 b. 24 6 32 d 10

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

at III

b 📵

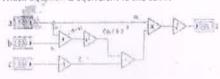
C. (6)

de H

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

Arrays b.Bollean

Which equation is equivalent to the code?



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

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

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

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

A state of the sta



a. The loop will sterate \$1 times

b. The loop will iterate 50 times.

c. The loop will iterate 49 times.

of a furtion that has a 50 wired to the count terminal will perform the same operation.

What is the colour representation of fractional Numeric?

a Blue b. Green & Orange of Pink

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

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

y one or more cases do not have a wire connected to it

d. None of the above

Which is only available on the block diagram?

a. Control b Constant c Indicator

g. None of the Above

The Wait function can be added to While

a. To free up available memory

bats allocate memory used by the CPU

To allow the processor time to complete other tasks

d. To reserve which processor the code is running on



Dr.D.SENTHIL KUMARAN, M.B., Ph.D., (NUS)

SSM 'natitute of Engineering and Technology Rucathupath Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

E. Coercion Dot

- b. Data truncation Dot
- L. Data typecast Got
- d. Buffer pliocation Dot

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

a. dt.X.Y

b. t0,X,Y

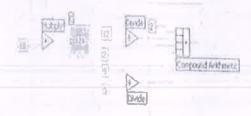
c/10,dt.Y

d. t0,dt,dy

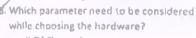
13, if the following VI, what will be the execution order of functions?



What is the value in Kafter the following code has executed?



o 140 b 30 /200 d. 270



- c. Java String on Numeration
- d. Java Script on Numeration

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

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

& selecting and * DINDIGUL. 63

Dr.D. SENTHIL KUMARAN, W.E., Ph.D., (NUS) Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

Laboratory Virtual Instrument

16. Which Old line in a MyDAO can be used to Control Motor Speed Signal?

- a, 0(01
- L' 0103
- c. DIO5
- d. DIO7

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

- a. 0 to +5 V
- b. 0 to +10 V
- C -51045 V
- 7-10 to +10 V

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

19. Expand ISON?

- a. Java String on Notation
- Java Script on Notation

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

		Test Date: 27.5.	2022
S.No	Register No.	Name of the Student	Marks out of
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	KAMALESH 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	MOHAMEDMUBARAKS	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 Rase of Engineering	15

ONOIGUL-624 00'2

201

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po).
Parani Road, Dinaigui 623 002

	922118106084	SWEETHA	14
0	922118106083	SURYA S	18
9			15
8	922118106082	SRI SABARINA K	14
7	922118106081	SOWMIYA K	
16	922118106079	SOUNDHARYA V	16
5	922118106078	SOBIKA V	14
34	922118106076	SIVA SAKTHIBALAN	12
33	922118106075	SHIVANI S A	16
32	922118106074	SHARMILA S	15
31	922118106072	SEETHAPRIYA S	15
30	922118106071	SATHISH KUMAR R	12
29	922118106069	SASIPRIYA S	16
28	922118106067	SANTHIYA G	17
27	922118106065	SANGEETHA K	17
26	922118106062	SAJITHA V	18
25	922118106061	SAFREEN FATHIMA M	18
24	922118106059	SAATHANNA G P	18



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.



Graphical Programming using LabVIEW

Feedback Form

Participant Name

Sajitha V

Year & Department

IV - ECE

College

SSM IET

Mobile No

9600425740

Email Id

souithaverz@qmail.com

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

Comments about workshop

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





V STL Signature

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Trabell

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.

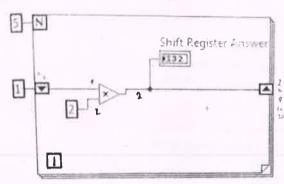
SHINE THE PARTY STATE

II SPECON THE PSPACINEX 20 m. 27 ho 17.05 32

LVA J ATION EXAM QUISTICS

Stincen Talkina MI 303118106061

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



a. 16

b. 24

6.32

d, 10

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



b. 🕞

Ci 🚳

MIN

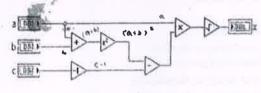
- Mhich data type is not accepted by the case selector terminal on a case structure?
 - Arrays

b.Bollean

c. Enum

d. Numeric

Which equation is equivalent to the code?



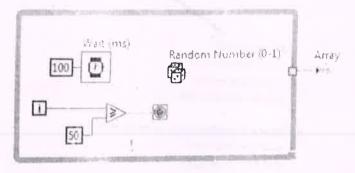
$$a/x = \sqrt{a \times ((a+b)^2 - (c-1))}$$

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

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

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

Which of the following statements is TRIE regarding the execution of the following ande?



- 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.

What is the colour representation of Fractional Numeric?

- a. Blue b. Green COrange d. Pink
- 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
 - prone or more cases do not have a wire connected to it
 - d. None of the above

Mone of the Above

Which is only available on the block diagram?

- a. Control
 - b. Constant
 - c. Indicator
- 10. The Wait function can be added to While Loops:
 - a. To free up available memory

bito allocate memory used by the CPU

- c. To allow the processor time to complete other tasks
- d. To reserve which processor the code is

Dr.D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)

Principal \$\$M Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.



th What is the red dot caller?

Numeric

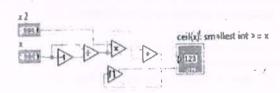
Coercion Dot

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

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

- a. dt,X,Y
- b. t0,X,Y
- 5/10,dt,Y
- d. t0,dt,dy

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



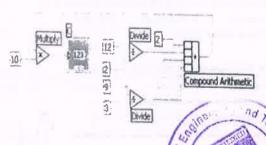








14. What is the value in K after the following code has executed?



200 d. 270 ps Expand Lab (E.V.

- Laboratory Virtual Instrument Electrical
- Laboratory Victoral Instrument Engineering Wook brinch
- 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
- DI03
- 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
- -10 to +10 V

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

- a. # Of Channels
- **Channel Range**
- Sampling Rate
- All the Above

19. Expand JSON?

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

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

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

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS) Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Pol, Palani Road, Dindigul - 624 002.



SOLUTIONS

PARTICIPATION CERTIFICATE

HANDS ON TRAINING PROGRAM

00

"LabVIEW and its Applications"

23rd to 27th May 2022, at SSM Institute of Engineering and Technology

This is to certify that Mr/Ms

SHARMILA.S

of ELECTRONICS & COMMUNICATION ENGINEERING department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department Of Electronics & Communication Engineering, SSM Institute of Engineering and Technology, Dindigul - 624002.

マナダ

VI Solutions, Bangalore Mr. Sunil Kumar V Managing Director

A-A-A-A-A-

Program Coordinator AP, ECE Mr. M. Manikandan SSMIET- Dindigul

Head of Depur SSMIET

SSMIET - Dindigul Principal SSM Institute of Engineering and for Principabl.D.SENTHIL KUMARAN. Dr. D. Senthil Kumaran

はいる。一人としてはいる。





PARTICIPATION CERTIFICATE

HANDS ON TRAINING PROGRAM

õ

"LabVIEW and its Applications"

23rd to 27th May 2022, at SSM Institute of Engineering and Technology

This is to certify that Mr.Ms

NAUNA . P

of ELECTRONICS & COMMUNICATION ENGINEERING department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department Of Electronics & Communication Engineering, SSM Institute of Engineering and Joehnology, Dindigul - 624002.

VI Solutions, Bangalore Mr. Sunil Kumar V Managing Director

Program Coordinator AP, ECE Mr. M. Manikandan SSMIET- Dindigul

Dr. S. Karthrai Lakshmi Hend of Department ECE SSMIET - Dindigul

Dr. R. SKATTETE KUMARMINA B., Pr. D., (NUS) Dr. D. Senthil Kumayan

Palani Road, Dindigul - 624 002,



SOLUTIONS

PARTICIPATION CERTIFICATE

HANDS ON TRAINING PROGRAM

"LabVIEW and its Applications"

23rd to 27th May 2022, at SSM Institute of Engineering and Technology

This is to certify that Mr/Ms

MOHAMED AKIL-J

of ELECTRONICS & COMMUNICATION ENGINEERING department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department Of Electronics & Communication Engineering, SSM Institute of Engineering and Technology, Dindigul - 624002.

よりめ

VI Solutions, Bangalore Mr. Sunil Kumar V Managing Director

Program Coordinator AP, ECE Mr. M. Manikandan SSMIET-Dindigul Head of Department - ECES SSMIET - Diedigut

SSMIET - Dindigul

Ргистра Principal D.D. D. SENTHIL KUMARA Dr. D. Senthil Kumaran

rundu (Po),

PARTICIPATION CERTIFICATE

HANDS ON TRAINING PROGRAM

20

"LabVIEW and its Applications"

23rd to 27th May 2022, at SSM Institute of Engineering and Technology

This is to certify that Mr./Ms

JEEVAN. I

of ELECTRONICS & COMMUNICATION ENGINEERING department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department Of Electronics & Communication Engineering, SSM Institute of Engineering and Technology, Dindigul - 624002.

なける

Mr. Sunil Kumar V
Managing Director
VI Solutions, Bangalore

Mr. M. Manikandan Program Coordinator AP,ECE SSMIET- Dindigul

Dr. S. Kartligai Lakshini Head of Départment – ECE SSMIET - Diadigul

ineering and

Dr. D. Senthil Kumaran Dr.D. Senthil Kumaran Dr.D. Senten M.E., Ph.D., (1908) SSMIET-n. Diggligud

Meditric of Reginering and Jechno

Palani, Road, Dindigul - 624 002.



SOLUTIONS

PARTICIPATION CERTIFICATE

HANDS ON TRAINING PROGRAM
On

"LabVIEW and its Applications"

23"d to 27th May 2022, at SSM Institute of Engineering and Technology

This is to certify that Mr/Ms

NISHANTHIN

of ELECTRONICS & COMMUNICATION ENGINEERING department has participated in the above training program conducted by VI Solutions, Bangalore organized by the Department Of Electronics & Communication Engineering, SSM Institute of Engineering and Technology, Dindigul - 624002.

としなり

Mr. Sunil Kumar V Managing Director VI Solutions, Bangalore

Mr. M. Manikandan Program Coordinator AP,ECE SSMIET- Dindigul Dr. S. Karthigai Lakshmis Head of Department EC

Principal DI. D. SENTHIL KUN
SSMIET - Dindigul Prin

AREA W.E., Ph.D., INVEST

T OF THE STATE OF

SSM Institute of Engineering and Technology cuttoding out Times and agained [Pol, Palani Road, Dindigul - 624 002.

Princil