

Министерство науки и высшего образования Российской Федерации Федеральное государственное бюджетное образовательное учреждение высшего образования

«Московский государственный технический университет имени Н.Э. Баумана

(национальный исследовательский университет)» (МГТУ им. Н.Э. Баумана)

ФАКУЛЬТЕТ ИНФОРМАТИКА И СИСТЕМЫ УПРАВЛЕНИЯ

КАФЕДРА_ КОМПЬЮТЕРНЫЕ СИСТЕМЫ И СЕТИ (ИУ6)

НАПРАВЛЕНИЕ ПОДГОТОВКИ 09.03.03 Прикладная информатика

ОТЧЕТ

по лабораторной работе № 1

Название: Дешифраторы

Дисциплина: Схемотехника

Студент ИУ6-55Б

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1. Blegeme 1.1 yest pasones

2. Teopeniureiane chegenia

3. Max murlical roumb

3.1 Baganul 1

3.2 3 aganne 2

3.4 Zaganne 4

4. Muiomenne

5. Konnyausure bonnous

6. Bulog

7. Comok sumeparmyper

Users pasonis: uzyrense normannos normoline u nemogos ucregosame geningpamopos.

Magarmuneumount pasoms -4 raca.

2. Ropembreuxul Agenia

Demugphamopan pazubalmes Kalusupanjunin ysel c n brogamu u N buxozamu, preospazyponzuń kanysni nadop glownyk brogusz arnank b annubusii curnal na buxoze, wombernimbywazi mony nodopy.

navopob basgnera urmaiob. Beginnerprimope en basgain i Nobersogaine N < 2°. Denniggamop, unevoyair 2° buxogob, nazubalende nalmen, mu ulufulli mil birrogob - nengrinsin. Kasopan glouriurx brogner uniais germapparapa nomino nomabimo o coombeminde n-payplynose governose man. Em birroges gennymemora odoznarumb F; (j=0,2ⁿ-1), no amubura buxaga, palmo glournamy muy, orpersolannamy natopan brogner curriand Tarana ospazou, gennappamop parmingprobabalm nogamina na ero broger glourpeut vog mela u gropmujyem arenubnette currear monero na combemnoyamen burroye, na biex chinadourix burrogax gennyyanopa currants reasurabnish. nombing gennypamop etalemie npeoprezoba mener geournois voya & xog "1 uz N". Denniggramop c'n bringain u N Buxagamin alazuaruline DC n-N, ye DC- deioder.

onepayar & ynpalierayre curuau b coombementyrousue yenu, que meospazobarna agpecob ereen namemu & currain busopa ereen rpu zamucu u crimistamin unapopulação no mix, que npeosparatame navigrate (agrecos) Karrasol B undrakanastoner Kannymamopax mekempintekany annayob B currous bodopa narrosob, que ynpublimel chenobrum ungunamepanne.

Pyraguonipolanie gennigramora DC n-N ompegeilleme madinisen unumoum.

		1	32009	M	4,72				Buxon	ysl	,	
EN	And	An-z	An-3	0 4 0	An	Ao	Fo	Fa	F2		FMZ	FN-M
0	X	×	×		X	X	0	0	0		0	0
1	0	0	0		0	0	1	0	0	900	0	0
1	0	0	0		0	1	0	1	0	0 . 0	0	0
1	0	0	0	200	1	0	0	0	1	***	0	0
		0			•	•		•	0		,	
	,			•	0	•	٥	0	9			
1	1	1	1		1	0	0	0	0		1	0
1	1	1	1	000	1	1	0	0	0	000	0	1

hax creggem us madeins 1, anammereuxol omicanne germappumapa monero npegemabinis colongermacines nomicana

grynnegen & CDHP.

Tyle 6,N-1) - Bexognel currante (reperenne) garrightomopia,

EN-curran perpendicula (compositipolarus) partomet geringepanopia.

Pipa EN-1 garrightomop paromalm, kak npeodipazobandus koga "t us N",

ripa EN-0 na biex berxogax geringepamopa yemanabulbaromet neakmulinne

currante resolutiono om macrightomopa yemanabulbaromet neakmulinne

arrante resolutiono om macrightomora varionolo bixognesi agreenen amarole.

Pixoy EN monem omme undependi. B man cupal odorina partoma geringipa
nopa unem neumo non EN-0. Demingipamop monem unemo neckartico

bixogolo parperinena, xomophe orienjunamena mengy colori romneckari

gymnesia varionomismi.

hanger grynwyne of b (1) npegemabilen colou Kontinumyenny egrunnist un unbepuno kommingemes mpra c coombemenbyonisme nougrau. normany sommercul grymasim (1) sionino zamiamo B brige: Fj=EN. mj= EN VM,

rge mj- koncommyenma egunussi, Mj-koncommyenma nyes, j-nauep nadopa, na komopali mi pabra egunuse, a Mi, nyviro.

semmengemop homem nymensmile:

- 6 Karlumbe cosambennio germappamona,

- xax getrynomumblekcop npu namnin bæga pazpemenns, - que gronimpolanus grynnizmi airetipu nomiai.

Brogs parpenience alipnam: - que brenennoso brigerenne (composignobanne) mon raime bissognoso armala, komopal ne unem nekasulutu, brzhfalun romanu bxognin umalob,

- gul brindinenue grynnismu genynomuniekunobanne;

- gra rapanishanne parpagnoinu germignamopa, m.e. ybennemia mua agnemix bxogob i coombeminbeund buxogób.

Napaulpupu genuggamopa

L'ourobrisse napaulmpau gennypomora omnocem:

- Kourreinibo brogob, impegallemed purphymounis uperinaryeuro grammers voga;

- consimilare naparelype, make, kak baggine u bisagnire

mora a nanpamena somelikar "O" a "1", nanpamena gonyimulusiz comammeliar moner vinan, vinan, kongranguenm parshembiliar no Geragy know hope, komopul ompeglieromes anatominum napane-

- nonpetilluae housement Prom [in more Iron);

- динаштенне параменти: времена гадержки распростронения сигназа при включении и выключении, карактеризующие обстронение денирротора

Caesus nounrolune gennegramora. no analogy nompolitul, geningrum gred pazgenlam na:

- Junlimel - Kaikaynthe

a) nupalligatione; d) congressamore.

hunderen genegramos surremente gennepremop empounte & combementem c cumenon prympagalet (1) u nyegymabalem cosoti z' rousionnangtob vall somremen Henry MAN-ME c n- Brogness Karngeris nous anymenteus congresses posamul u c (n+1) exogaliu-npu ero nauverni. Luneunoù geningpramop na 2 bagge pasomalm & wombeninbur C maduneti unumnoume.

Tudunga mmymounu gennuggramopa DC 3-6

Tabuya 2

Brogn				1000000	Buxogu									
EN	A	An	Ao	Fo	F	Fz	Fz	Fy	Fs	F6	F			
0	X	X	X	0	0	0	0	0	0	0	0			
1	0	0	0	1	0	0	0	0	0	0	0			
1	0	0	1	0	1	0	0	0	0	0	0			
1	0	1	0	0	0	1	0	0	0	0	0			
1	0	1	1	0	0	0	1	0	0	0	0			
1	1	0	0	0	0	0	0	1	0	0	0			
1	1	0	1	0	0	0	0	0	1	0	0			
1	1	-1	0	0	0	0	0	0	0	1	0			
1	1	1	11	0	0	0	0	0	0	0	1			

Denniquemop DC 3-8 peaningem sommenge grynnigum F=ENm; = = ENVM1,)=0,7

Byannan gerngyranope kanegni nasop brogner armand npeotrazyemed b curnal I na combeminbyrowen burroge. Npu man na omasenerx burrogerx gerindyrom curnain O. Faroi genngyrumop nazibalne
genneppemberan c npenishm burroganu.

Mon noungrolnun genniggemora na reneumax M-ME peach-By serve cumena grynnymi F= EN·m, = EN v M, 5=0,7

taxoù genneppanoep nazibalemel genneppamopon c'unbepennen baxo game. Ha boxogax geningprimopa gropmingmen unbepure grynxymi Fi, mo einib armubnin yprobneu birxoga dygem nuzium yprobent curnaia.

15 Juneuran gennigramope opene zagepricku painpainpanenna curmaia om agnémoro um compostupyromero brogos go burroga pasmo Spendin zageprisa parapornjaneme curraia b veri novegobamento GRUPTEMBER FILLEUMA N (N-HE) u unbeprinopol:

t3g.p. up=2t3g.p. up1+t3g.p. up2,

rge tz. p. 41, tz. p.42 - gregnee Brens zageprava pampologranema curvala b unbeumone u ronsiantemone coonbernembeimo.

Purpauligastonen glungramop inpound na oinobe noulgobamentoù (vaixagnoù) peanizagni brixogninx grymagni.

La reploie mane planizyromes vousioners un glyx repenements:

AAAO, AAAO, AAAO, AAAO

Ra Emopeu mane bil konstancju nipisk nepellembre nymen vormenkoro yunomenus kangoù para nolypenhoù konstancju z nepellembre na Az (Az)

AzAnAo, Az AnAo, Az AnAo, Az AnAo,

Az An Ao, Az An Ao, Az An Ao, tz An Ao the imperior yours mane kanggro of nongrenment brune kontrongen imper rependenter yoursmann on Az (Az). Taken objection, the kanggry angular angular mane noupaion bytoe Soumé konsnoukyun, ren na nnegrigymen. Myrannganisher gennepremipes resolution on rucia ux Exegob empremie na ourobe mouro ghynthiologenx vournememopol.

Musio narragol nupurugarenoro germappumopa palmo n-1, liperes respondent painpointpanente urmanol & geningpermone ybeninbalmice appropriation with vary of normany & namonice spense imparingaposbum a ninouszyemie brackagnoù exeme coegunemia germigramopob.

13 kanyou kaikage npouixogum napeuizubanul ne na ogun ognechtu purpay, kak b nyrasugastinoù geruigipamope, a na neixaitxo, misto komopisk pabno rusy agpeinix parpagob npoimoro geruigipamopa, na oinde komopisa composime geruigipamop c neoskogusisis rusiau agpeinix brogob, komopisa nazobéia cioninsus geruigipamopau. Npra napauzubania ninestryponice brogs parpeuleur npoimor geruigipangob

Temparienne vonok & gennigganopax.

Bulgimbul repersyuhx mousius in brevenin zaglimex unna ob byenex sourceum selections sourceum sourceum roux responsable in the source community, inpubogarque x nathereum sources cureas and buxogax cxeum. Oundure (programban, nozbarrouxum ruxmorum rouxum, ahisemal compositional (boglilling us impopulationario cureas mote raine, romopas chosogra om uramente, bozobalitis rouxaite). Compositionario cureas na mante bxogl parpetulenta EN Ne goismen source source compositionario bellus repersynerix reposendo lo geringipamope. Compositionario bxog minouszymile mante que rapangulante geningipamope.

glyxbxogoboro genegramona C 1) Malegobanue suntimoro

unbepenselle Enxogame:

a) du coman mineriment composignement geningramos na Dienemar 311-HE; nasopu biogneix agreement curnavols Ao, A1 zagans c baxogob anavora crimnuca; magninorena chemobre unguramones k berxogan anavora creminica u k berxogan geungpamopa. Pezyumanus npegenabiener 6 npuromenur na puynke 1; d) nogamb na bxog curnar c Buxoga Kruna (Switch) nor. On 1, kan renepamopa ogunorner munyuscob; usuenes counsemme cremrusa c nations on know, commune mating uninnounce nempoliquemore generalizations (m.e. npu EN=1). Tatunga npegemakena b npuromenum b mating 2:

6) nogemb na brog curnar renepamopa a cnount Epenennere granpa-

Pergusmanus nnegunusium & Aprilomenun na piagnike 2 u punguke 3.

fuxogax germappamopa g) consent beluenne granpatutus curriado composino que gentigopa-mopa; le kareunte composino que curriado una unauzobanto linterenta curriado reneparmopa, zagenmaniano lumien zagennica normeciano relienmos (notingumere i unbepmopol);

Perzumanne rpegimabiens na puryme 4.8 Aprilomentue la magnice 5.

e) ompegeume breue zagepneur, neovisiognulos que univerenue navier na bradger gernegramopa, bozbarnor romanu

Pergusmanies réplyenableurs na purique 6 8 Aprilonienien.

2) Navegolanue gennapamopa 74LS155 a) ensure spenemme granpainers currais abyrésiogoboro gennymanopa, nogatas na ero agrecime brogn 1 u 2 curnaus do u Q, Brixagob cremnusca, a na emposippousue exoger Es uEy-unqueres renepamopa. Persystemanis inflegimableus na pucytikax 7 4 6 6 ripulomeniu.

5) Orphesement brems zagermen composingues curman, reobsognise gu virinorenus nomex na birxogax gennigramora;

Sagepreek ulm

B) companie caeny ny isobsogoboro genny primpramopa na ocnobe genny pamopa 74 LS 155, zagabar bagnire curnana Ao, A, A, C buxogob Q, Q, Q, Q, Crimuka; chrimb brenenne guarpannia cumanob genny pamopa u cocmabino no neu mashiny nimunocimu.

Pezyromanus npeginialiens & npuiomenin na purynkax 9u 10, madinise 4

3) Malyobarnel generepremopol 74LS139, anavorano n.2. MC 74LS139 cogephiam gla generappamopa DC 2-4 (V1A v V2B) c pazgetomentu agreanum bxogaru u pazpemenua. Bxogn pazpemenua—unberanel. Tax kax kangsati generappamop unem ogun bxog pazpemenua, no gra ospazobania gbyx unberemix bxogob, neosxogumo nepeg bxogor pazpemenua bxuorinto ghyxbxozoboti 17.

Pezzyromanus preginiabiens & npuromenur na purymeax 11412, madiuse 5

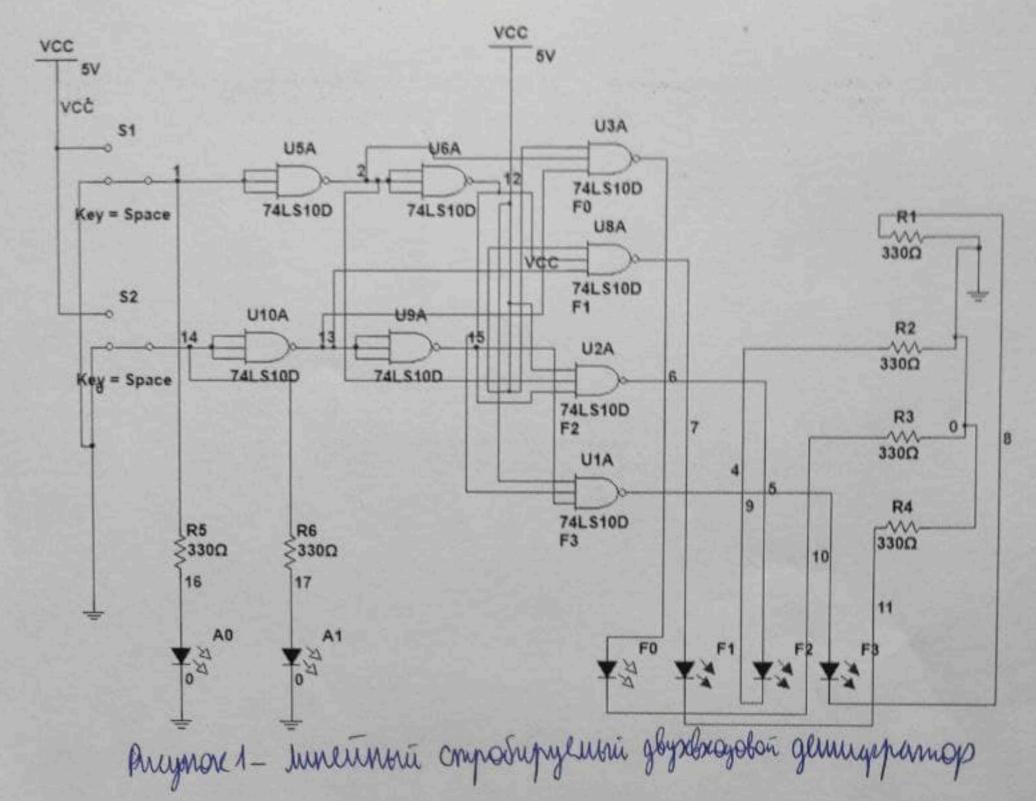
4) Neulgobant pasomoinoisobnoint gennigepamopa 74 LS 138

a) chamb brevennere guarpailler cumatob hemposingenoro genuquamopa DC 3-8 74L S138, nogabas na ero agreenere bxogn 1,2,4 cumata Qo, Qa, Qz c baxogob criemnera, a na bxogra pazpemenna E1, Ez, E3- umata sor 1,0,0 coombementerno.

Perzystmanus megernabiens & Musionemus napusymax 13 u 14.

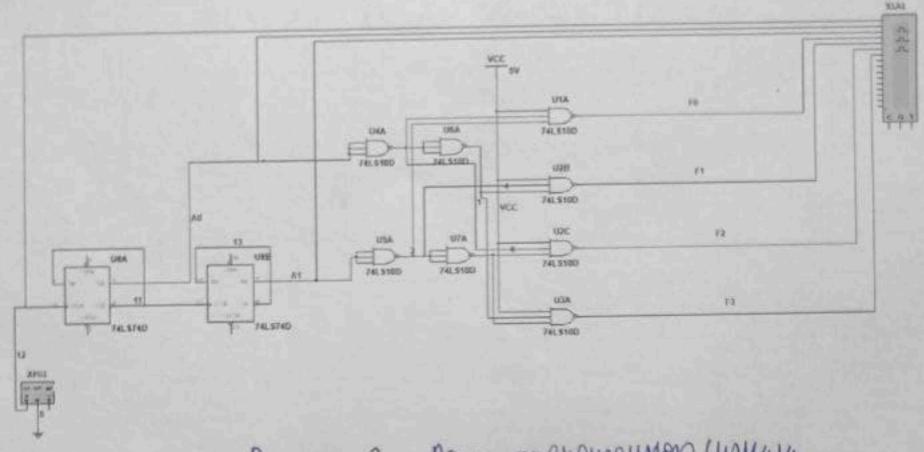
S) cooperate executy generalization DC 5-32, contains intercognine regressioned mustamed must brought a common believable quarraneous currents brought armond Qo, Q, Q, Qz, Qz, Q, Qu c burraged 5-pazpegnoro cremmuna, a na brought parpetitement - miniputed reneparamona, zaegepranamonel ministe zaegepranamone. Perquenament reperpensalization & representation na printipular 15,16,17.

Muloneme

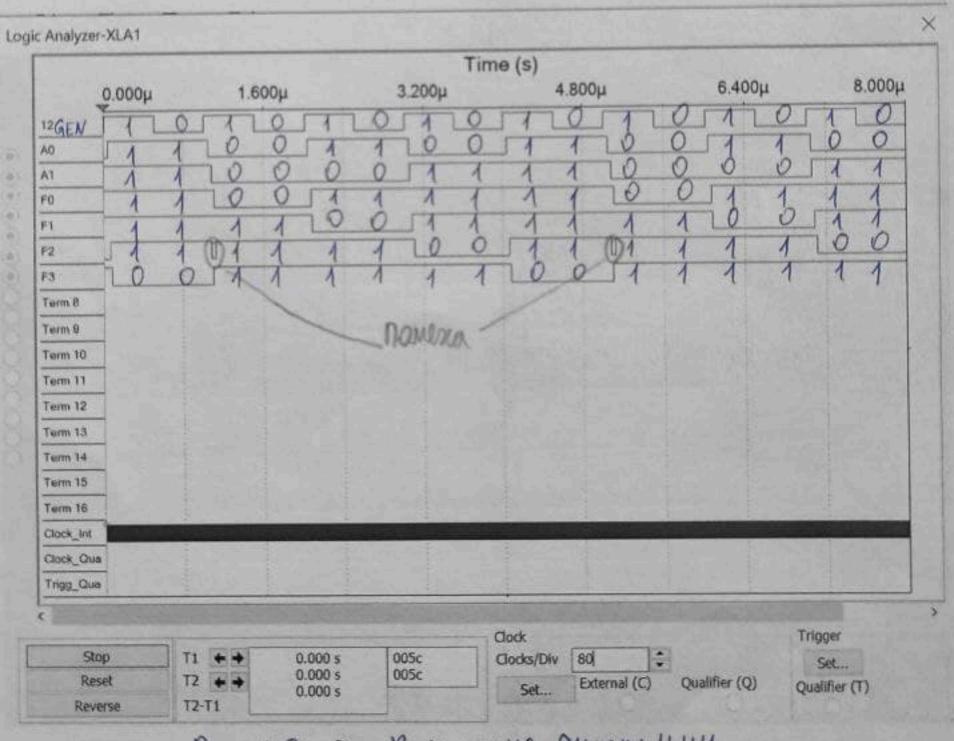


Takung	sa www	moun	n genn	uppamoj	Tarlinga 3
40	AI	FO	F1	F2	F3
0	0	0	1	1	1
0	1	1	0	1	1
1	0	1	1	0	1
1	1	1	1	1	0

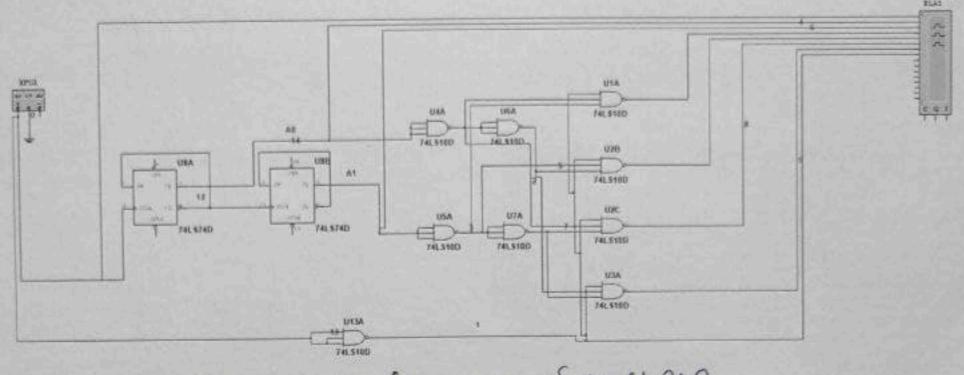
B maduuge 3 npegimabilha maduusa uiminnoinui gbyrbxogoboro geningepirmopa, na brog xomoporo nogalemia curral c birrioga xura (Switch) ior. Out, xax renepamopa ogunorusix uimprocob



Purynox 2 - Nogara nnehogramoro curriara c renepamopa na brog gennephamopa



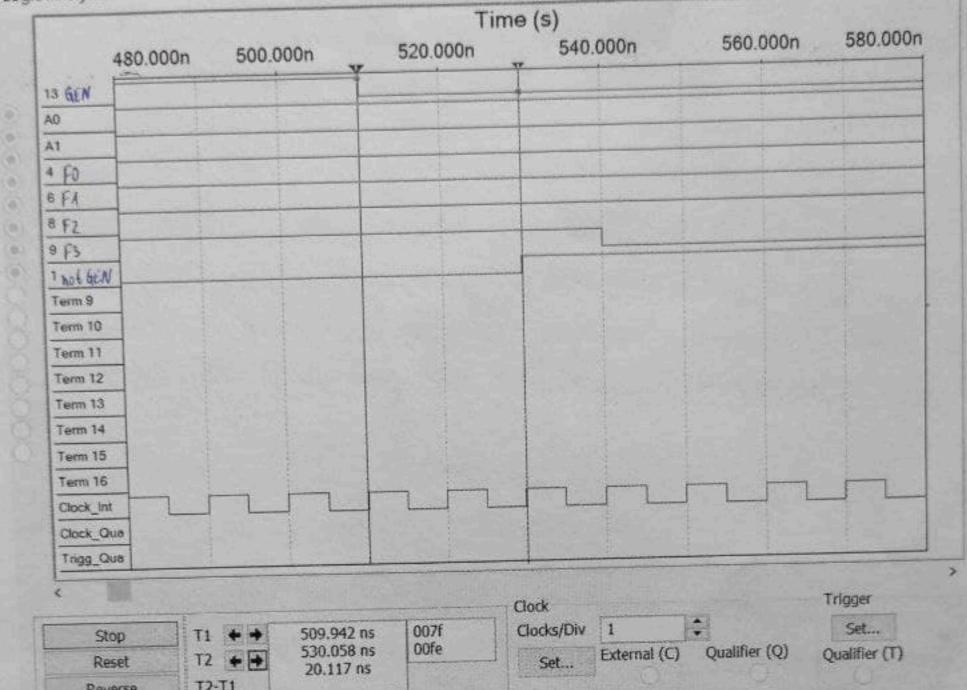
Prugnok 3 - Brevennse guarpallust urmanos gennapramopa



Puignon 4- Cxeur cryrobipyenoro gennippamopa

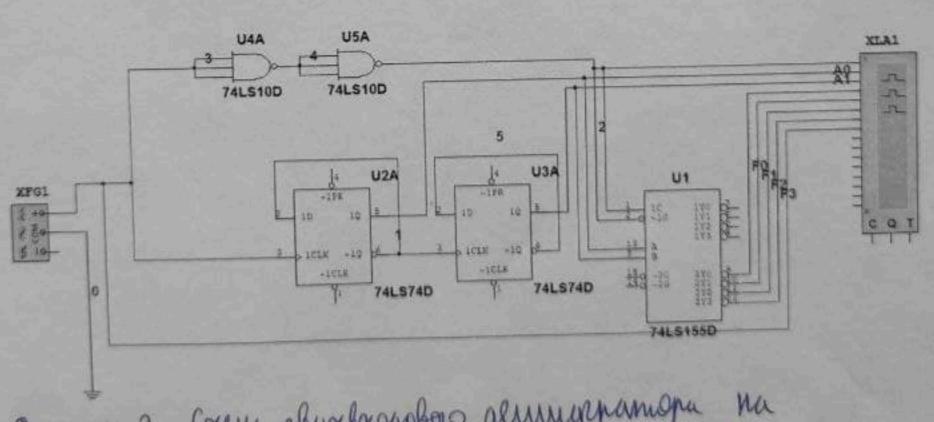


Brugnox 5- Brenennas guarpatina connais connais compositymento genuppamena Branche compositymentero curmana deri unaltzoban undependi curma renepamopa.



X

Prugger 6 - Onpegerenne Sperienu zøgepmæn na gnarpamne Sugepmæn pulsur 20,117 m ~ 20 m



Purignon 7 - Crema abyribrogoboro germappamopa na omobe 74LS155D

6

(6)

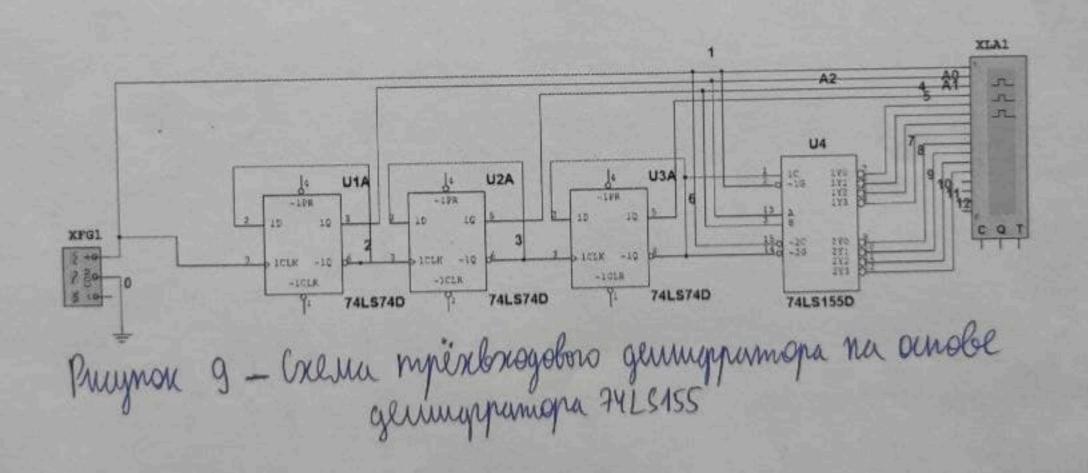
(0)

(6)

6

×

Purpose & - Brenemas guarpanna gbysebsogoboro gennigramopa

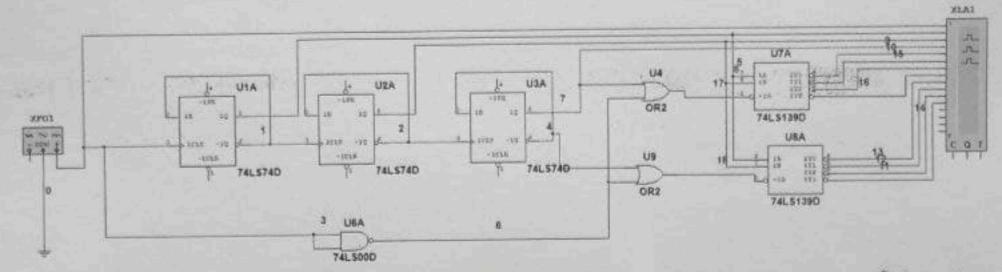


X

SCHOOL STATE				Clock			Trigger
Stop	T1 ++	0.000 s	Obfc	Clocks/Div	10		Set
Reset	T2 ++	0.000 s 0.000 s	Obfc	Set Ex	cternal (C)	Qualifier (Q)	Qualifier (T)
Reverse	T2-T1	0.000					

Purynox 10- Brevennas guarparina ripexbrogoboro germigipamopa.
Tasunsa nimumacimi ripexbrogoboro germigipamopa.
Tasunsa Virgina

									-	Name and Address of the Owner, where
Ao	A	Ap	Fo	FA	F,	Fz	Fy	Fs	F6	F7
0	0	0	0	1	1	1	1	1	1	1
0	0	1	1	0	1	1	1	1	1	1
0	1	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	0	1	1	1	1
A	0	0	1	1	1	1	0	1	1	1
1	0	1	1	1	1	1	1	0	1	1
1	1	0	1	1	1	1	1	1	0	1
1	11	1	1	11	11	1	1	1	11	0

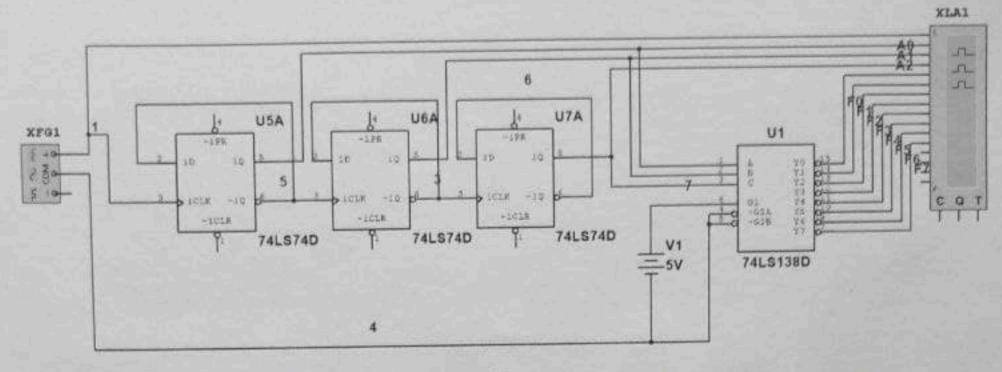


Purynon 11- Caera e glynn glungpramopanu DC2-4

			Time	e (s)	
	0.000μ	2.000μ	4.000μ	6.000µ	8.000µ 10.000
3 GEN 5 40 6 41 7 42 9 F0 10 F1 15 F2 16 F3 14 FY 13 FS 12 F6 11 F7 Term 13 Term 14 Term 15	111111111111111111111111111111111111111	0000		10010 10010 11111 11111 11111 11111	101000 11000 11100 11000

Tadinga remandema exemp c gayal geningprimonam oct-4.

A ₂	A	A.	Fo	F	F	F	Fy	Fs	F	Fa_
0	0	0	0	1	1	1	1	1	1	1
0	0	1	1	0	1	4	1	1	1	1
0	1	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	0	1	1	1	1
1	0	0	1	1	1	1	0	1	1	1
1	0	1	1	1	1	1	1	0	1	1
1	1	0	1	1	1	1	1	1	0	1
1	1	1	11	1	1	1	1	1	1	0

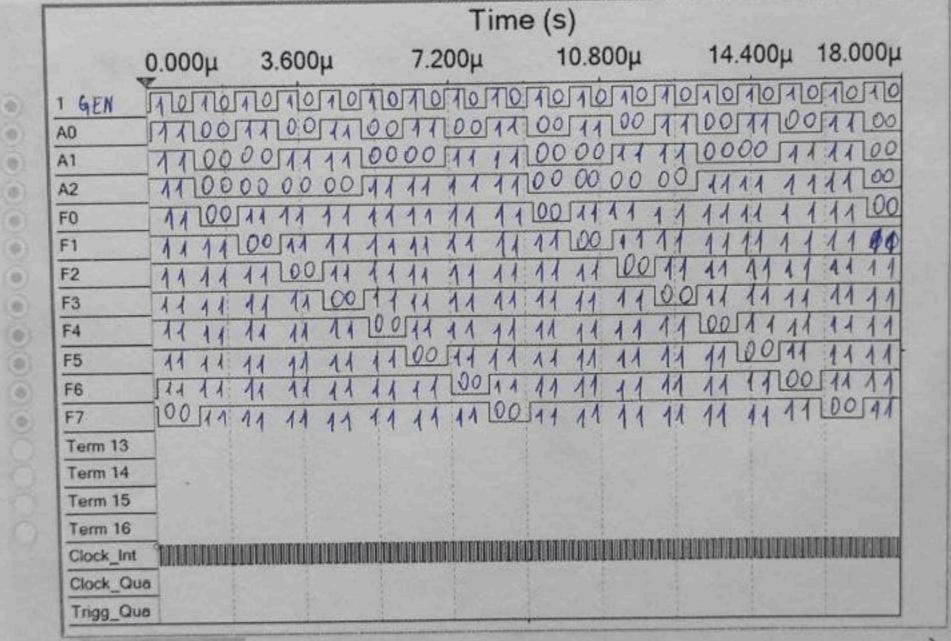


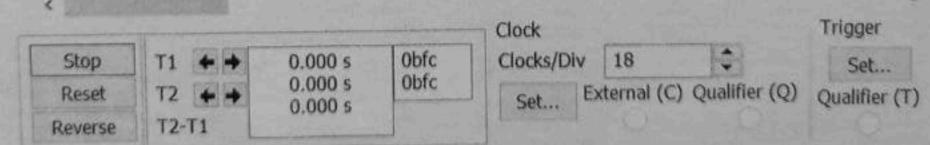
Punymon 13 - Cxeur neumposupyenoro gennypumopa

Logic Analyzer-XLA1

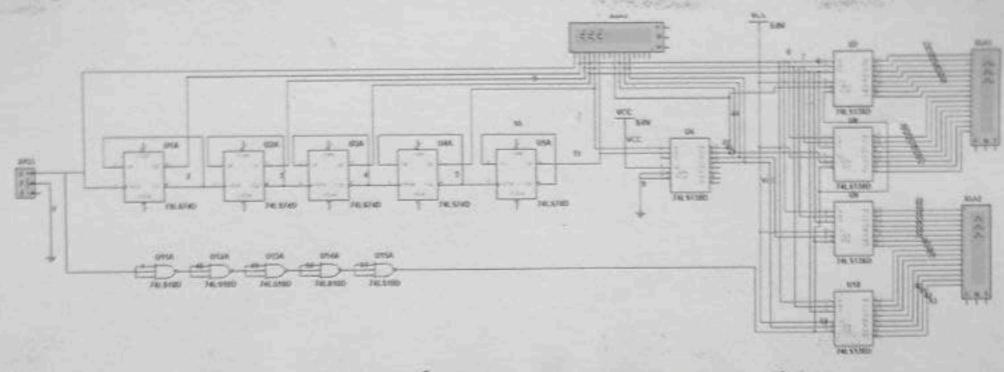
Time (s)

X





Pringpor 14- Brenemas guarpanna genngeparappa



Pungrou 15 - Cxeua genneppamopa DC5-32

				ime (s)		
	0.000μ	7.000μ	14.000µ	21.000μ	28.000μ	35.000
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28 F				1/04		
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Degrees and the	19			101		
31 F	19 1			101		
-	101			101		
33 FZ	41			4 1011 4 1011		
-	22 1				ØT.	
35 1	LS 1				11014	
36 F7	24 1				ALOR	
37 F)	15 1				101	
38 FZ	b 1				4104	
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	29 1					101
42 F	30 1					1011
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						-4-30
11199	Qua		Name and Address of the Owner, where			
4	Pile make a least		NAME OF TAXABLE PARTY.			rigger
-		200	Taxa Taxa	Clock		
	Stop	T1 + + 0.00		The state of the s	\$	Set
	Reset	72 + + 35.00 35.00		Set External (C)	Qualifier (Q)	Qualifier (T)
		T2-T1	W. Milk			

Prugnon 16- Brenennas guarranua borxogob geningpamopa

Loumpellener Borgeres 1) Ino hazabalnus gennggrunigran! Imo Konduniquomerii izze En Gxegalli n N Genxegalli, Komophrii arried na barroge, romopera coomblemembylin smally navory. 2) Maron gennypamop vaznbalnul namna (nenaman)? Neumin glunggramop - mo glunggramop, huesanguin n brayob u 2º bissogob. Elle kourelinds bissogob mensue, no mo nemamini gemurgamop. 3) Onpegeiune zuvon cpymanopunobanus Germappumpa anatumureusu u moduli . Fi- Gerragnoù arrun gennygrangna Inautronizeum: Fo= EN. An-1 . Anz A1. As Ai-brognoù urmal genngpungra FA = EN . An-1 . An-2 A1 . A0 Fz=EN. An-1. An-2 A1 A0 FN2= ENO Ana. An-2 - Ag lo tw-1= ENO An-no An-20 ... An As Mountainquell madurinol ormanue zaxona cpyrnaguorupobanul germappamopa na omobe geningpumpa DC 2-4 4) Marinime another choises nompoenus glumppumopses b close organie gerenie na nupauganoure u compremente. Luneume conjuence & wombementin c cumenati prymagua u npegenathilan cosoti 2" xon pronomoros um 17 MM-NE c n-bxoyami nanyora (um (n), elin emb unparydame) Rupanyanono companie na ocnobe nochegobamentino (vacuagnoi) pearizariu burrogners apyringuis mes neurousses sunctions, na kasayou no nomena generapyemes spyrmu paspoujob boxognow voga.

5) Uno naziobalence romanti i vick y imparisonal somune cirmatti,

Buzbarnere romanu!

Bugumbul nepexagnux projects a speciennex zagepmen curriands 6 yenex At morym bozninknyme elsenne, nazvibalime romkami (comerzanie), noutraine k northernus sommer united na buxayax exemu. Ynyanumb noneu northerem composignatione - borgerenne uz unapognationed armais nou raina, nomopar chologua om uscamenta (ronox)

4 buxagos u kar onu peanizyronne chemomischmerku?

DLA Napausubanua geningpumopob compaan cioninai geningpumopo DC n-N, noinpoembiti no ripoinione geningpumopob DC n1-N1. In nich =>

These Karrayob K= n, mus morning germagnanignal DC & burkoynan Mackage: N, B npegbinngman N, Bo Bragman NK

B buxognou kuckage glumppyma n, magnum pazpagob agpea cuonuno genungpymana u m.g. Bo bxognou kackage geninggymae yrgma comapulura parspagos agreca.

Brisneyer germappaments registracymens hamaga colgundence co cacogamie purplement ryamina germappaments brisagnos hamaga n m.g.

Bubby

Bubby

Baselen parametric parome chill isgrens repeal the genupparapolo; bozineminam mineman i variagnos genupparapolo, crowdi yimpanemia nanex na birrogist genupparapolo, birzbaninx ronkami; pizbirma nabina rumonucina.

1. Memogeneerul yrazanus no banasneuro sasapamapaa pasama no cxeuomexnuse, Pasama Nez. ruusplane genuppumapat.