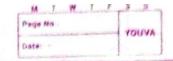
	M T W T F 5 6
	Date: YOUVA
3	While designing any system or application, application programmer must know the number of tasks that should be executed so that memory usage will be application.
	springin, 10 save data memory (RAM)
57	Why to set ticks per second value a  the can specify timing I delay using  set ticks per second
	set ticks per second parameter.
3.3.2	Need of stalib.h & stalio.h Files.
921	stdio.h is for standard input output while stdlib.h is header file for standard library
31.1	Hope out the part to set of
	• tutorialspoint.com/header-tiles-stdio-h-and- stdlib-h-In-c
W 10	to work by home it women act to a super
3.3.	Defining the crack
_ 1⟩ _⇒	Why every task needs to have separate stack?  As all the tasks are independent on
Sec. 14.	each other we need to have reporte stock.  If not given reporte stacks then one task  may block the other task.
2)	What for the stack is used & for context saving & retireving.

av).	Page No YOUYA  Gate  VOUYA
.37	Whether stack is in RAM or ROM ? why?
-	stack is in RAM as we want to
	read & conte the data.
4	How stack is defined in ucos-II ? what is the data type of each member of the stack?
_	The date type of each memor.
	# define Tarklength 64
5	OS_STK_Taukstko (Tauklength);
	Data type: void pointer tack, pd, pdata
	Data type. Vois pointer tast / pur
1.3.	16-bit integer opt.
-	stack pointer ptos.
3	Use same stack for two tasks & observe the
	output. Write observations & reasons.
<b>⇒</b>	We do not get proper output that we
	are expecting, when low priority tark executes
	& its current create placed in stack & then
	preempted by high priority task. It was same
	stack & below memory is used by low priority
	task
	The same and the s
2. 3. 4	Task function declarations.
	responded a super waves and the sta
17	How task Functions are deligred ?
	OSTOJK (reate (Tojko, Ivoid +) 0, & Task S+KO (Tarks+Klengt
	-1), 6); was a said a said a said a said a said
	s both to some all toget and toget a
	and the frequency of the same



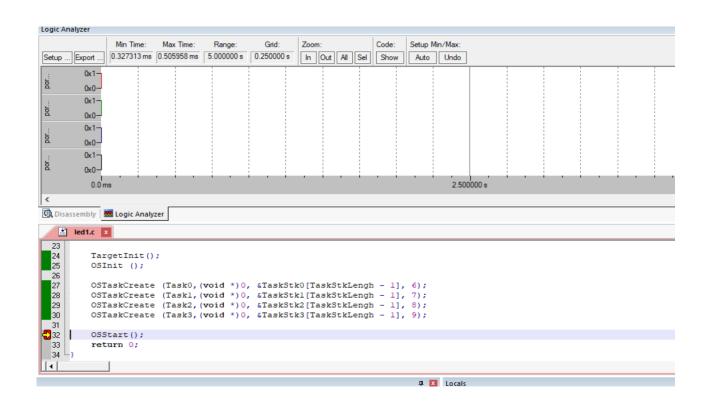
27	Why declaration of these function is required?
1	The RTDS was and I find
	theate It with minit mader &
	do this was seed to declare
	functions. Da de la
	STATE TO DATE OF P. D. P. LIES FOR STATE OF THE STATE OF
3.5	Tanget Init() & Os Init() Functions.
	is free it she had so that to a chear it is a first
17	What does the TargetInit() for do ? How to venify
	that practically ?
=	This for is used to enable use timers,
	UART, Memory, etc.
	To verify it practically, debug the code
, 1.	put break points before & after this function.
	and the for entering the fact.
27	What does the OSInite ) Function do ?
	It contains multiple functions like prevent
	rescheduling, multitarking, move tasks, wait I meady
	to run for event.
q	1 12 graphs to ( ) . [ I - Albert XXX TO CAR TRATO ] [ [ ] ]
37	comment there Functions one by one & observe
	the olp white the observation of the reason.
=	1 1/ 1' 12-24
1	viell on output are all there Functions are
	necessary for the task's execution.
	Heressand to the tests to specify to the test of the t
	and the state of t
	The state of the s
	has a real and the second and the se
	The same of the sa

1 8,000	Page No. YOUVA
3 .3 . 6	Meed of OsTavkCreate Function
1>	How a tack is created? White the c interest
=>:	OSTark(neate (Tark_Name, (void *) 0, Add. of tark, priorit
	OsTark (meate C Tauxo, (void +) o, & Tarkstro CTarrotklength-1:
27	Ever if the body of the For is already written,
Laries L	why we need to create the tark?
3	Creating tark means informing the as about the
L UT	tack i.e. when to min, where to min etc which
	is not there in body of for
9	To verific in graditions a debug of
37	Illustrate the meaning of each of the arguments
	of the for creating the tark.
4	(i) ostask(meate () > function having definition of
	allocating storage for cpu status register i start
Jb 70	of mutitarking, etc.
1	(ii) Tasko => Name of the task created
	(iii) ( & Taukstko CTaukstk (ength -1 ] (6) =) Address of
borr	stack of tosk of monity.
	port of a noneverside of stold go it
	tross another wait appropriate as
3.3.7	Need of Osstant()
	ridus exe the the son processes
17	What does the osstart () Function do ?
>	It is used to start the multitasking process
	which lets wos-I manage the tark. But before
	couting of asstants user must call ossnits
	there should be at least one task

M	The state of the s
Page No.:	YOUYA
Cate:	

omment this function observe the old of the program & conte your comments on it. There will not be any output as osstart () function is essential for year-I 3) Put a breakpoint on the statement immediately after osstanti) Function. Run the program write the observation. Think of the reason 4 conte it. =) statement after osstarts is return o. It is the unreachable statement in the program As asotante) more it will run the torks, as tarks contain while (1) loop so return o is unreachable statement 3.8 Taux functions. Return type & Pointer argument 17 What does a tark function do ? Why does a tark have white (1) loop ? > Tark function consists a block of function codes to perform a particular activity. The while (1) loop runs each took continuously 1) What is the need of the argument of tack If the tark required to work on external data in its function then the data can be passed to the Function through argument ex why it is a void pointer type ? 2) Allows wer to rend data of any datatype. It outs like an universal pointer

		rega flö	AVUON
		Sete	1
4} ⇒	Why the tank function has no return (i) RTOS scheduler that calls the ful is not designed to handle a return	action /	antique
	(ii) The tark is an infinite loop & so	there	is
	no return value.	-	-
2.35	with about the state and at the thick had		<u>, 9 79 </u>
	with the test of the same of the test of the	11242	
3.3.9	stepuire execution of eros based of	pplication	<u> </u>
1>	Put a breakpoint at the first executal	ole uta	temen
	of all tark. Run the program & conte	obser	vations
. 57.55	about the execution	11131	
7	After running the program, all tarks	were	
	executed as per the priority. Lowert	num be	~
	means higher priority & vice versa.	1 10	
۷	Parte the screenshot of observations.		
	before the execution of osstarts. win	te com	ments
=	Comments: No output will be generate		
	osstant c) function is yet		



```
After pressing run button once conte comments.

The comments: Execution point goes to the task of Function which how the highest priority

After pressing run button once again conte comments

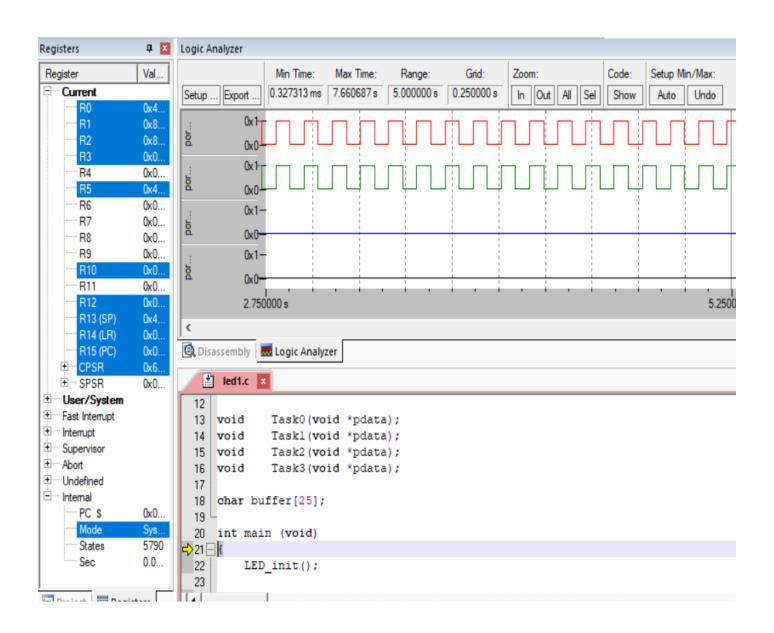
Comments: Precution point goes to the tasks

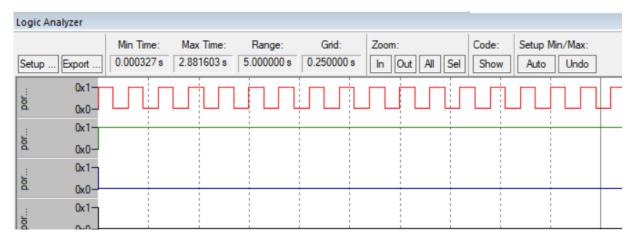
which is the next higher priority task.
```

```
🗓 Disassembly 💹 Logic Analyzer
   illed1.c x
 33 return 0;
 34 -}
 35 void Task0 (void *pdata)
  36 - {
37 | pdata = pdata;
                                                        /* Dummy data */
  38
 39
         while (1)
 40
 41
 42
             LED_on(0); // All LEDs on
 43
             OSTimeDly(3);
 44
```

```
illed1.c x
51 void Taskl (void *pdata)
 52 - {
 53
54
       pdata = pdata;
                                                      /* Dummy data */
 55
56
        while (1)
57
            LED_on(1); // All LEDs on
58
59
            OSTimeDly(3);
60
            LED off(1); // All LEDs off
 61
```

0	Creating tark & deleting tark within tark
17	modify the program to create only tarko in main(). Create tark! in tarks. Write the code of tarks only.
<b>3</b>	void Tasko (void * pdata)
	t (stoped to by John DP blow)
+	pdata = pdata;
+	OSTack (reate (task), (void +) 0, & tackstk) (
-	TaskStklength -17,7);
+	while (1)
	ACA TOTAL OF TOLL ( TOLL) , (US) & *) O , TO EDIE
	LED-ON CO) ; - CTECK STELENATO (O) NO-DE)
	OS-Timedly (4);
	\$ (+) '00 Junto
	Leb-off (0);
	Ostimeply (4);
	3
	three of the meaning of the meaning of the
27	
	observations.
=)	comments: Both tarko & tarks were
	executed property





4.14	M T W T F S S Page No.:  Date:  YOUVA
3. 3. 11	observing the effect of ostimeDly on the execution requence of application.
	Put the breakpoints at LED on 10ff as well as ostimedly function in tasks as well as task! Run the program of write your observation.  Put breakpoints on (eD-ON(O) of tasko, ostimedly (1) of tasks and so on.  The execution flow will be as below:
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2> ⇒	Kinte reasons to support there operations.  Calling delay function causes a context switching and forces the wws-II to execute the next task of high priority so it is like, after turning on the LED on from tasks, execution point goes to LED on from task 1.