Lab Session - 8

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Date:				YOUVA		

Using Mailbox in UCOS-II

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Subject: RTOS.

· Programme for mailbox

11 programme to illustrate mailbox

include " config.h"

include "stalib.h"

include < stdio.h>

define Tasks+klength 64

OS-STR Tarkstro CTarkstrlength J; OS-STK TOSKSTEL C TOSKSTELEngth);

void Tasko (void * pdata); void Taski (void + pdata);

11 create pointer to the mailbox

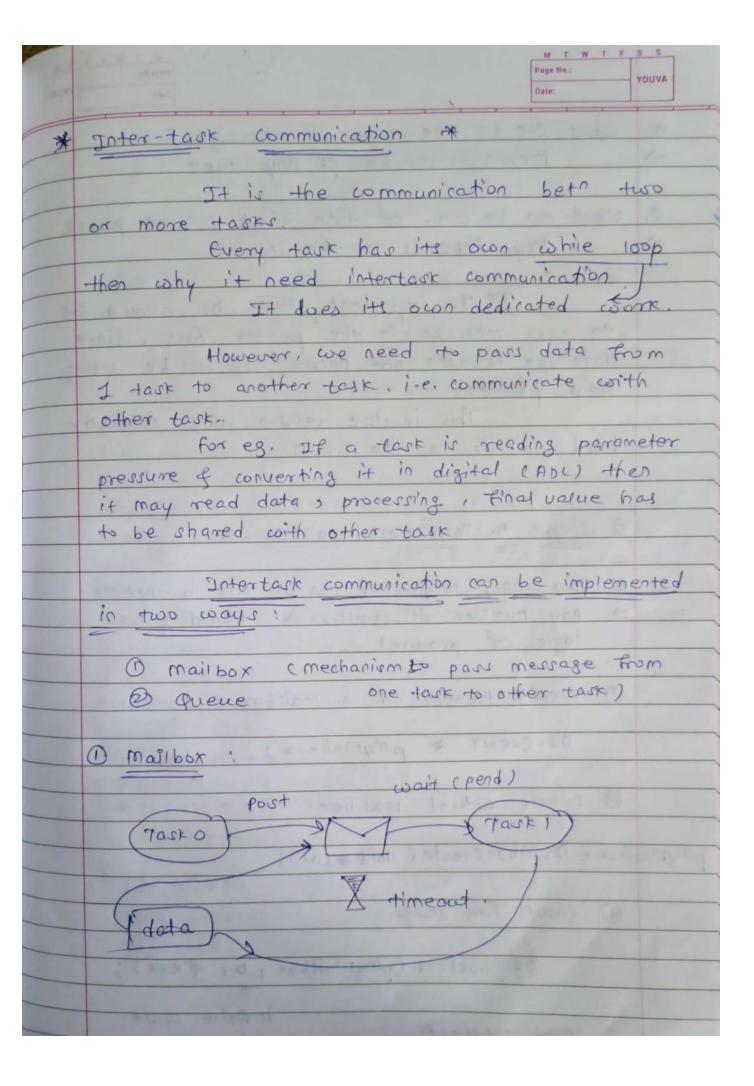
OS-EVENT * My Mail BOX;

11 declare variable to othere error

uints em;

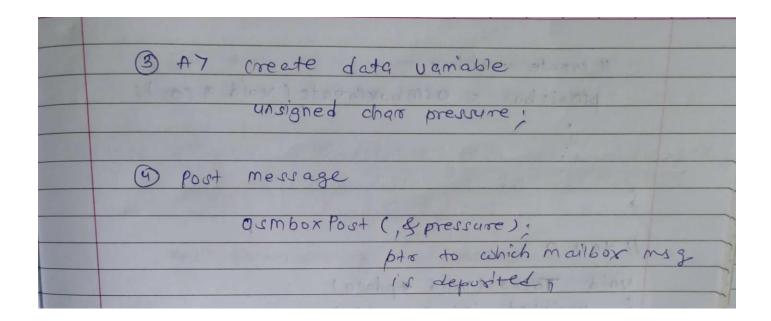
```
Mailbox in 11005 II
int main ( void )
    LED-init();
   Tanget Init ();
   OS Init (1;
   Il create actual mailbox with no message
   mymailBox = asmbox(reate ((void *)0);
   OSTask (reate (tasko, (void *) 0, & Taskstko C
                      Tasks+Klength-17,6);
   OSTASK (reate (Task), (void *) 0, GTASKS+KIC
                     Taskstk Length - 17, 7);
   Osstart();
   return o;
3
11 tasko
void Tasko (void * pdata)
   unsigned int c;
   pdata = pdata;
   while (1)
      c = 3; mes anote of plantery protes
      osmbox Post (My mail Box, &c); 11 Sending data
      LED-ON(O);
     Ostime DI4(1);
     LED- off (0);
     OJTime DIY (20);
```

```
11 Taski definition
void Taski ( void * pdata)
3
  intrni; pteb sighum braz ronnos sin
   unsigned into ptr;
   unsigned int ci;
   pdata = pdata;
   while (1)
      c1 = 0;
       ptr = osmboxpend (mymailBox, o, gerr);
       c1 = *ptr;
      For ( i=0; icc1; i++)
         LED-ONCI);
         OSTIME DIYCI);
         LED-Off(1);
         OSTI'me DIY (1);
      Ostime Dly (4);
```



Q.	what can be the type of mersage ?
->	
1	I that the parties with the site of
0.	to be died. of day that can be boils
= =	Any depends on the system.
	Do to implement this, or allows up
-	to pass message in the pointer form, since
	datatype is also not known we will be who
	Void pointer.
7-1-	This is the reason cony mailbox
	hold pointer to the data
-	I seem bedeen assumed to the body on it
	& steps to implement mailbox &
1000	Q How many mailboxes can be oin a system
	> Any number of mailboxes depending on
-	rogic of product
	O create pointer to a mail 60x
	OS-EVENT * pmymailbox;
-	(D) Comple and the
	O create actual mailbox
pmymai	160x = Os Mbox Create (void * (0));
	3 wait for mug
	OsmboxPend (pmymailbox, o, gem);
	1011011
	a post message infinite wait.
-	(9) OSMboxPost timeout

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Observation:



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