Scanned with CamScanner

```
(Roll no - 88) CS-B1
                                         2020
                 1801010170
                                       Thursday
 10 11 12 13 14 15 16
c8 17 18 19 20 21 22 23
                                        January
09 24 25 26 27 28 29
           Operating System Assignment -2
 Date of Submission: - 02/04/2020
1200 Q17 Implement the Dekkers solution
     problem in Producer - Consumer with
Aus: Dekker's solution implementation on
     producer process
400 while (true
            while ( counter = = BUFFER_SIZE)
                  11 do nothing
5.00
                          = "next Produced;
                   (in+1) % BUFFER-SIZE;
             flag [i] = true;
                     (flag [j] = = true)
                           flag [i] = False;
while (twn == j)
NOTES
                            flag [i] = true;
```

VARUN VERMA

NOTES

--; //www critical section

February 2020

```
2020
                                          Saturday
 10 11 12 13 14
 17 18 19 20 21 22 23
                                           January
 24 25 26 27 28 29
                                                   011-355 • WK 02
           flag [i] = false;
            1/ Remainder section
10.00
11.00
    Implement the Peterson's solution in orde
        Producer Consumer with finite
1.00
            Peterson's solution implementation
         Product process >
2.00
  while (true)
             while ( counter == BUFFER_SIZE)
                           11 do nothing
4.00
                          = nent-produced
                          (in+1) % BUFFER_SIZE;
5.00
7.00
                                  // Cretical section Sunday 12
                counter++;
                    Remainder section
NOTES
```

013-353 • WK 03 Peterson's folletion implementation

2020 Monday January

NOTES single chopeticks-

13 14 15 16 17 18 19 04 20 21 22 23 24 25 26 05 27 28 29 30 31

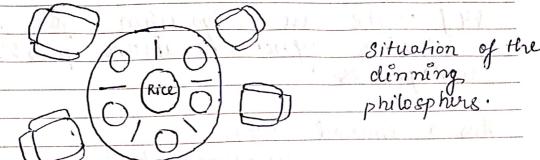
on

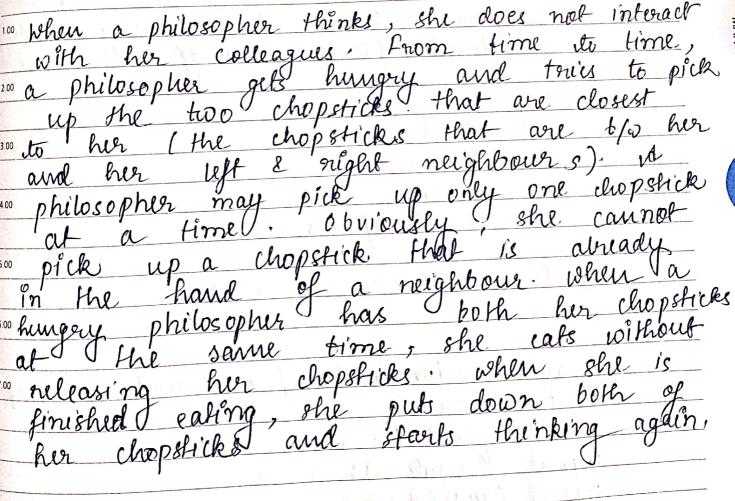
```
Consumer phocess :-
     while (true)
                      while (country ==0)
                                         nothing = buffer [out];
 11.00
                        out = (out +1)% BUFFER_SIZE;
 12.00
                      flag [i] = true;
                       while (flag[j] && two == j)
1.00
2.00
                       counter --; // crisical section
3.00
                       flag [i] = false;
1/ Remainder Section
4.00
5.00
           What is Dinning Philosophers Lnoblem?
their lives thinking and eating. The philosophers share a cincular table severounding by
  five chavis, each belonging to one philosophers
In the centre of the table is a boul of
rice, and the table is laid with five
```

NOTES

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2020 Tuesday January 14 014-352 • WK 03





2020 Wednesday January 01 January 2020 wk M T W T F S S 01 1 2 3 4 S 02 6 7 8 9 10 11 1 03 13 14 15 16 17 18 19 04 20 21 22 23 24 25 20 05 27 28 29 30 31

```
Barber synchronization problem using
      semaphones
  11.00 Am -> shared delta
                    semaphore barber; Ifor mutual engusion
  12.00
            semaphore customer; // no. of customer waiting int Number of Seats; // no. of Seats vacant
 2.00
      Initially
 3.00
                    barber = 0
                   mutex = 1:
 4.00
                  customer = 0;
                  Number of seats
5.00
   The structure of
                        Barber Process
   do
         wait (ustomer); //if none avail go to sleep.
         Number of seats ++;
        signal ((barber);
        signal (muten);
         1/hair cut
NOTES ? while (treel);
```

February 2020

AN T W T F S S

1 2

2020

Thursda

34 5 6 7 8 9

56 3 4 5 6 7 8 9

57 10 11 12 13 14 15 16

58 17 18 19 20 21 22 23

59 24 25 26 27 28 29

The Structure of Carillana

2020 16-350 • WK 03

	The structure of Customer Process
00	
	do f
0.00	wait (muter); //enter critical section
	if (Number Of Seats 70)
1.00	O of
	Number Of Seals:
12.00	Number Of Seaks; Signal (Customer);
	signal (muten);
.00	signal (muten); wait (parber);
	11 haircut
2.00	3 . A THE SHARE THE STATE OF TH
	else 2
3.00	signal (mutex); // leave without a haircut
	Il leave without a haircut
4.00	3 : Carrie and Aire
	3 while (trul);
5.00	Control of the Contro
0	5) Give the soution of second Reader-Writer problem by using the concept of semaphore?
5.00	problem by using the concept of
	SPLAND Dhow he?
7.00	· · · · · · · · · · · · · · · · · · ·
	Aus -> shared Dala
	int read count;
	int write count:
	simaphone nmulen;
-	semaphone wmuten;
NOTE	s semaphone neadtons:
	seuraphone nesource;
To all	0000000

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Sunday 19