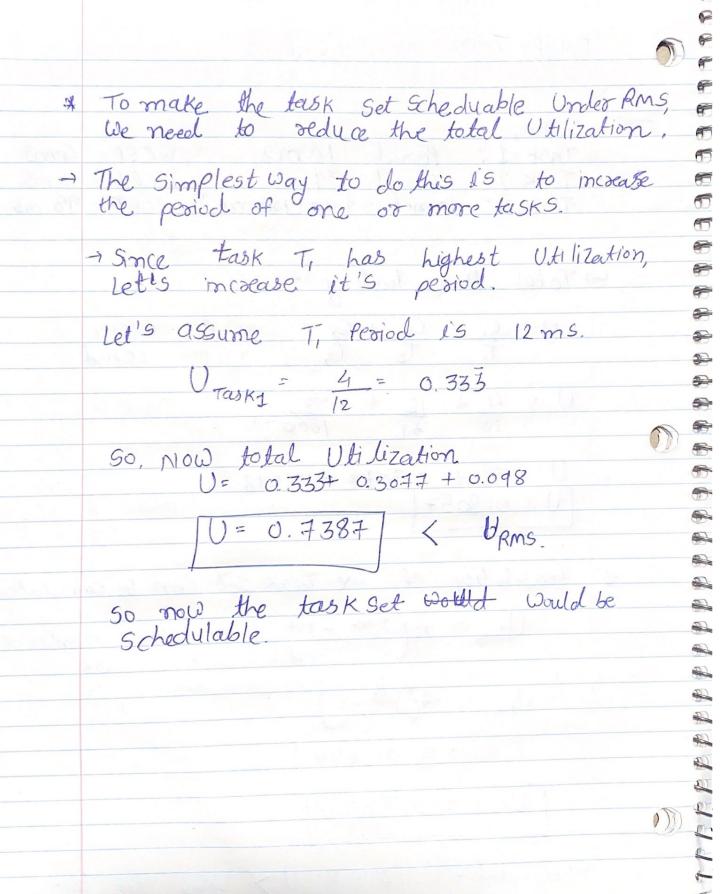
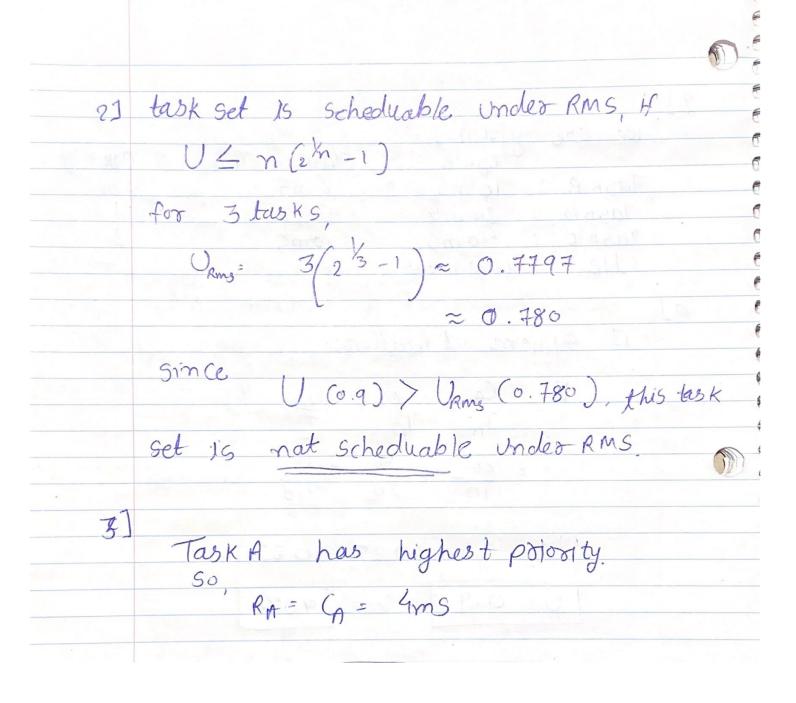
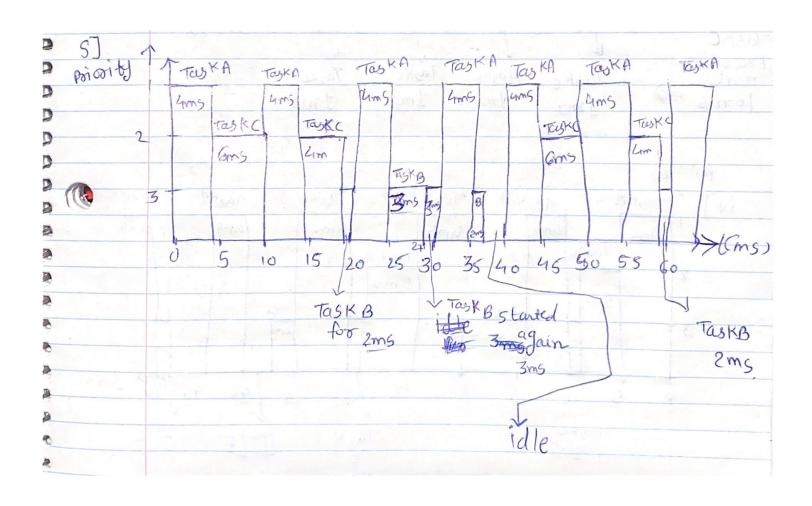
```
Tirth V Patel , 200435378.
         ENSE: 452 Assignment: -3
                          additioned the face of sacrifold
   Given,
Task 1: Period = 10ms, WCET = 4ms
         Task 2: Period = 39 ms , WCET = 12 ms
               Task 3: period: 15= (1000ms), WCET = 98 ms
4) Total time loading:
                    U = \frac{C_1 + C_2 + C_3}{T_1} \qquad C_1 = \mathcal{W}(ET)
T_1 = \frac{T_2}{T_2} \qquad T_3 = \frac{T_1}{T_1} = \frac{T_2}{T_2} = \frac{T_3}{T_3} = \frac{T_1}{T_2} = \frac{T_2}{T_3} = \frac{T_3}{T_3} = \frac{T_1}{T_3} = \frac{T_2}{T_3} = \frac{T_3}{T_3} = \frac{T_3}{T_3}
              U = \frac{4}{10} + \frac{12}{39} + \frac{98}{1000}
              U= 0.4 + 0.3077 + 0.098
                                           J - 38 1. 6 2611
              feasibility of the Task Set Can be calculated
                                 U_{RMS} = n(2m-1)  n = number of
                                                                                                                                                                                          task
                            Upms = 3(23-1)
                                                            = 3(0.2599)
                            VRMS ≈ 0.780
     since total Utilization U> URMs the tesk
      Set is not guaranteed to be schedulable Under RMS.
```



2]	established to be the lindsheet and the Room of
	we are given,
	Cycle Execution Time Pario site
	Task A: 10ms 4ms 3
	Tasks: 20 ms 5 ms
	Task c: 40 ms 10 ms 2
	idle : continuous 5ms -
	Tale . Covaringous 57115
a	
	1] System utilization:
1	1- 395terre out 112ation.
)	U = CA + CB + C
7	A CB + CC
	IN B
1	= 4 + 5 + 10
) Ca	$=\frac{4}{10}+\frac{5}{20}+\frac{10}{40}$
)	
	UF 0.4 + 0.25 + 0.25
2	
	D= 0.9 00 90%



0	
	Task & desponse time = 4ms + 10ms
	= /4 ms
	Task B Despone time = Amst loms + Sms
	= 19 ms
4]	deadine meeting.
->	Task A Deadline = 10ms and
	reets deadline by 6ms.
\rightarrow	TaskB Deadline = 20ms and
(response time = 19 ms. Neets deadline by 1 ms.
-	Taske Deadline = 40ms and
	sesponse time = 14 ms. 50, Meets it's deadline by 26 ms.
	All task Meet their deadlines.



Pood: b System utilization U= 0.9/ Jamains & Same Response times Task A highest poposity, sesponse time=4ms
Task B, middle poposity, desponse time=4ms Jesponse time: Task C Execus lowest priority, response time 4+5+10 =19ms TOSK PO iii Task A deadline : 10ms completes in 4ms. Task B, deadline - 20ms, completes at 9ms. So meet deadlines by 11ms. Task C deadline = 40ms, completes at 19ms. meets deadline by 21ms.

