Assignment 3

Theory Assignment:

1. T1(15, 1, 14) T2(20, 2, 26) T3(22, 3)

Resulting frame size

We have tasky:

$$\Gamma^{1}(15,1,14)$$
, $T^{2}(20,2,26)$, $T^{3}(22,3,22)$

: Requirement 1: $f \ge 3$

Requirement 2:

 $\begin{bmatrix} P7/4J - P/4 = 0 \\ 30 \end{bmatrix}$

We must have $f = 3,4,5,10,11,15$

We must have $f = 3,4,5,10,11,15$
 $20,22$

Requirement 3:

 $2f - 9 cd(P_{i},f) \le D_{i}$
 $2f - 9 cd(P_{i},f) \le D_{i}$

3. T1(5, 0.1) T2(7, 1) T3(12, 6) T4(45, 9)

```
we have task sets
TI (5,0.1), T2 (7,1), T3 (12,6), T4 (45,9)
T1 (5,01,5), T2(7,1,7), T3(12,6,12), T4(45,9,
   Requirements:
  but we cannot have a frame
  Size larger than period (T1+5)-
  so we have to break task T3, & T4.
      73 (12,6) > (12,3),(12,3)
      74(45,0) \Rightarrow (45,3), (45,3), (45,3)
     80 fz, 3
  Requisement 2!
              += 1,2,3,4,5,6,7,9,12,15,45
  f= 3
       2×3-9cd(3,5) <5 (True)
       2×3 -900(3,7) = 7 (FRUE)
       2×3 - gcd (3,12) = 12 (TRUE)
      243 - 9cd (3,45) = 45 (TRUE)
```

TI(4,1), T2(5,2,7), T3(20,5) T1(4,1,4), T2(5,2;7), T3(20,5,20) Requirement! 125 size larger than period (T, +4) dividing T3 as $73 \Rightarrow (20, 1), (20, 3), (20, 1)$ similarly