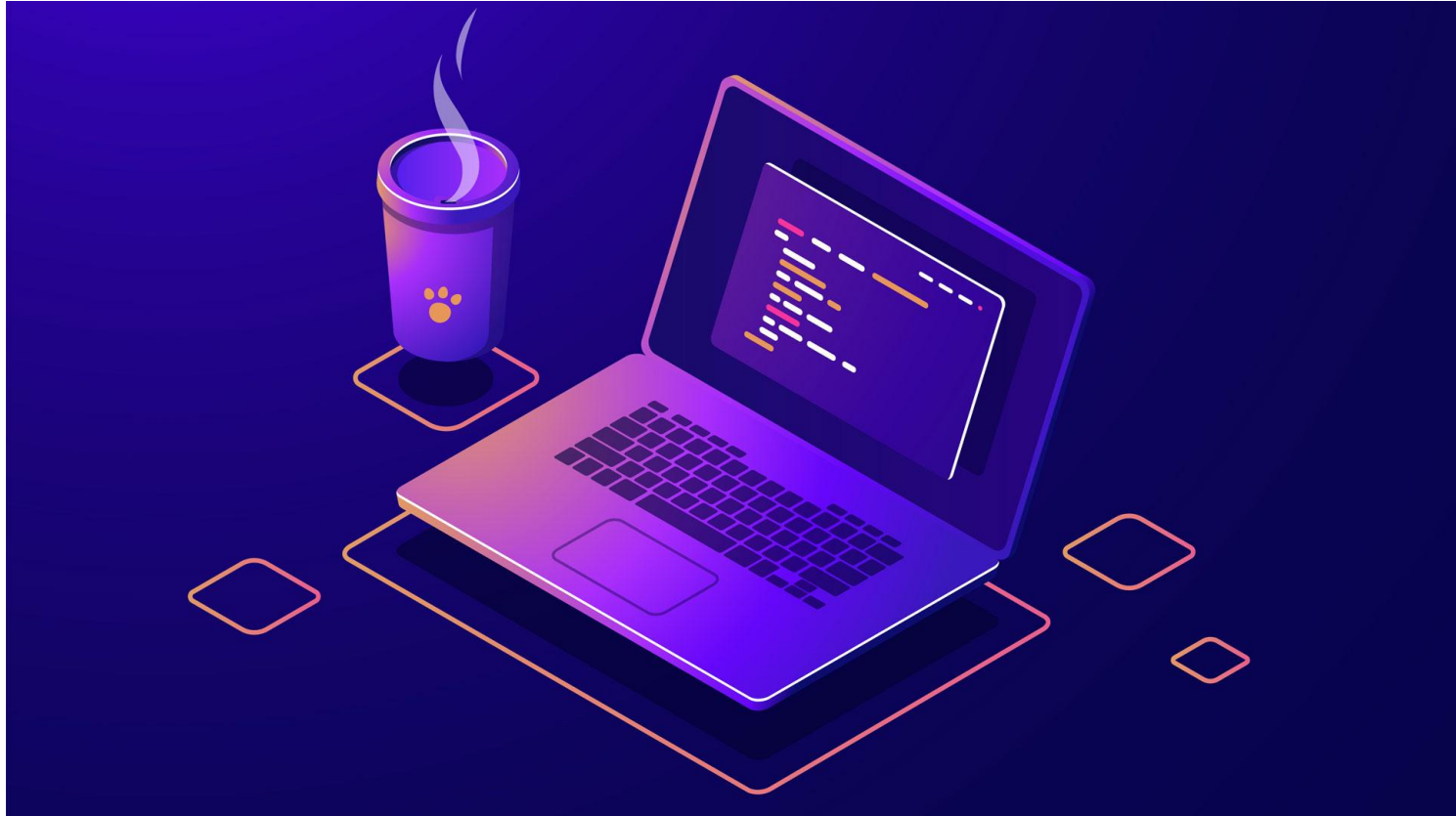
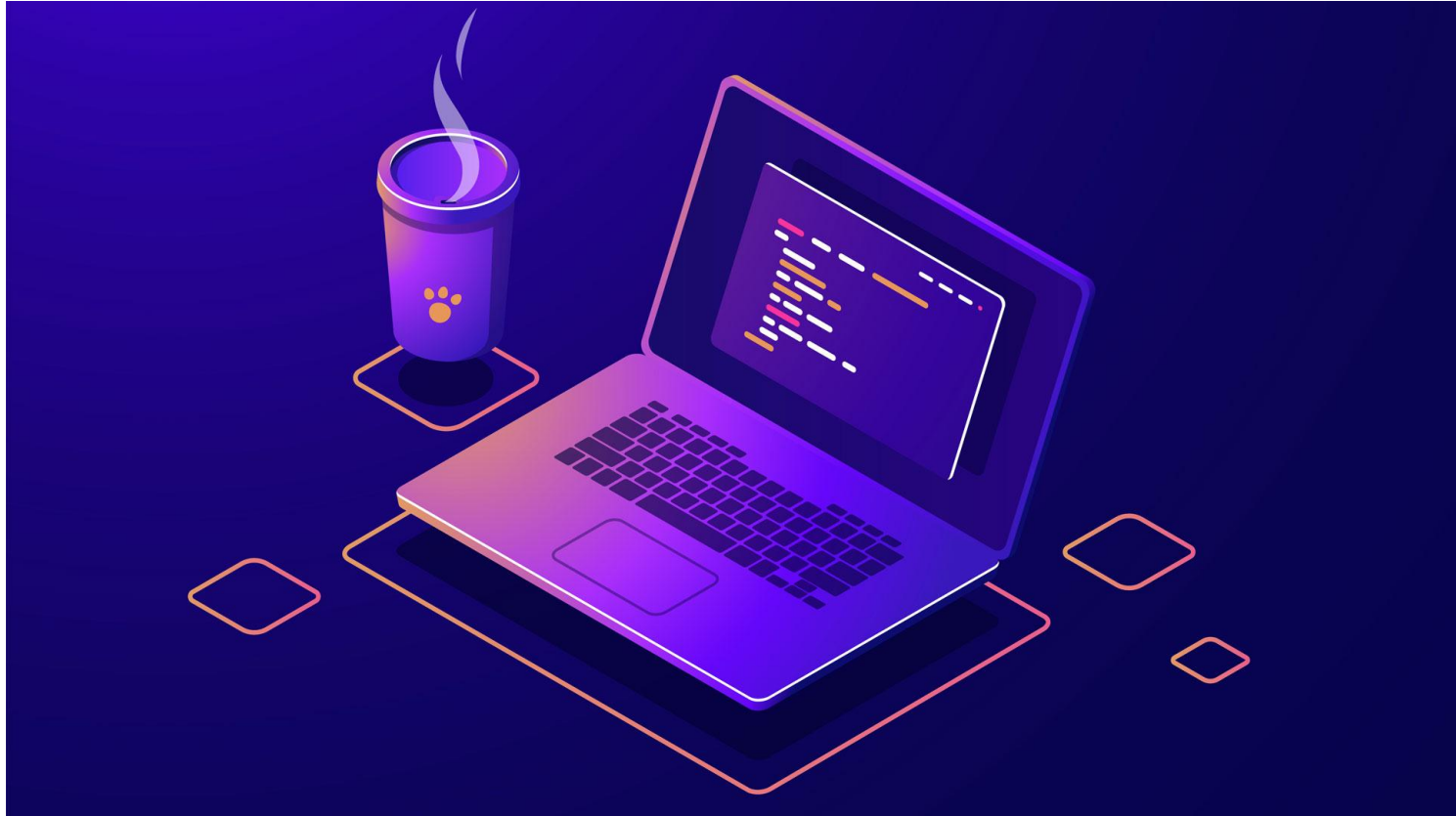


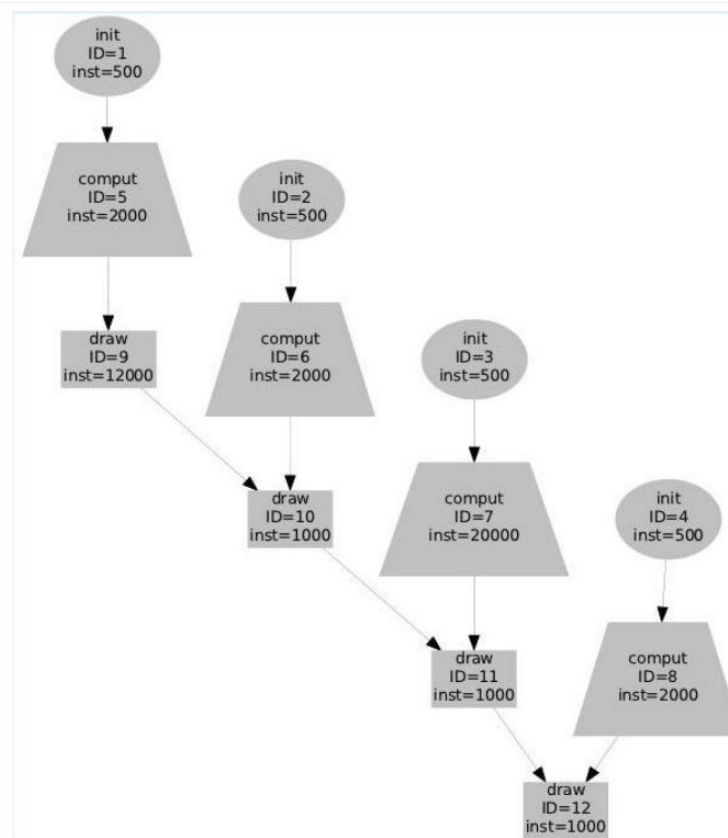
# Parallelism Fundamentals Problems



## Problem 2



# Problem 2



## Problem 2



a ) Calculate  $T_1$

b )

Critical

Path

c )

Calculate

$T_\infty$

d ) Parallelism and minimum number of processors ( $P_{\min}$ )

# Solutions



$$a) T_1 = 43000$$

# Solutions



a )  $T_1 = 43000$

b ) Critical Path =  $\{3, 7, 11, 12\}$

# Solutions



a )  $T_1 = 43000$

b ) Critical Path =  $\{3, 7, 11, 12\}$

c )  $T_{\infty} = 22500$

# Solutions



a )  $T_1 = 43000$

b ) Critical Path = {3, 7, 11, 12}

c )  $T_\infty = 22500$

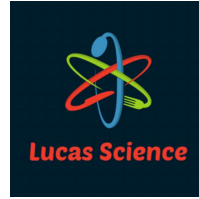
d ) Parallelism =  $43000/22500 = 1.91$

Hence, minimum number of processors  $P_{\min} = 2$



# Instructor Social Media

**Youtube: Lucas Science**



**Instagram: lucaasbazilio**



**Twitter: lucasebazilio**

