

# Tugas 1 – Statistika dan Probabilitas (Rombel 01)

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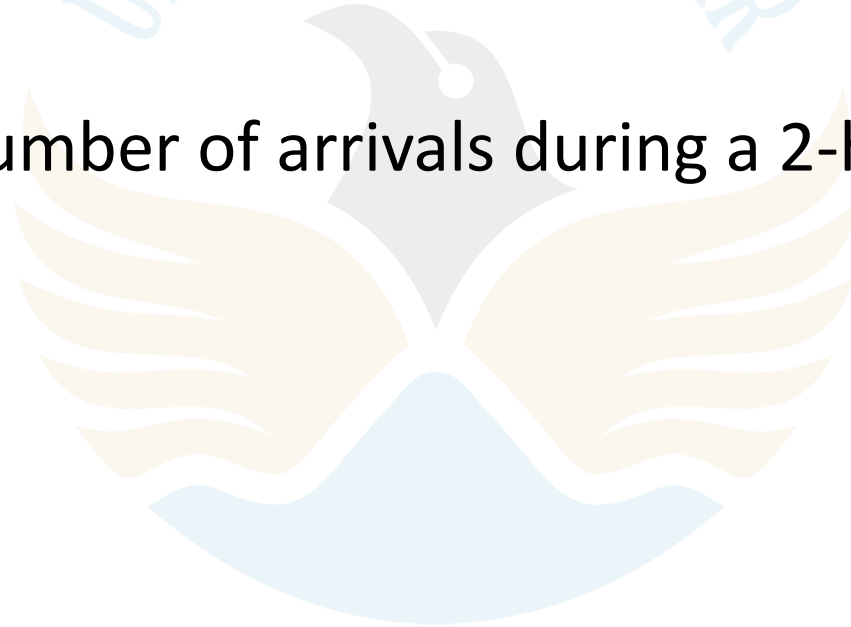
- Kerjakan secara individu di kertas (ukuran bebas) dengan diberi Nama dan NPM di pojok kanan atas
- Kumpulkan di ruangan Bu Restu (Ruang Dosen Teknologi Informasi, FT 3 lantai 4) secara kolektif maksimal hari Kamis 26 September 2024 pukul 12.00 WIB

# SOAL 1

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The number of customers arriving per hour at a certain automobile service facility is assumed to follow a Poisson distribution with mean  $\lambda = 7$ .

- a) Compute the probability that more than 10 customers will arrive in a 2-hour period.
- b) What is the mean number of arrivals during a 2-hour period?



# SOAL 2

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Computer technology has produced an environment in which robots operate with the use of micro- processors. The probability that a robot fails during any 6-hour shift is 0.10. What is the probability that a robot will operate through at most 5 shifts before it fails?

