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Semester -I

A.Y.2025-26

Sub.: - Artificial Intelligence Lab

Class: SE

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**Assignment 04:** Assignment and practice of SORA

### Theory: Introduction to SORA

#### *1.1 What is SORA?*

SORA is a cutting-edge text-to-video AI model developed by OpenAI. It generates high-quality, realistic videos from textual descriptions. It understands complex visual concepts such as motion, physics, and 3D camera perspectives.

#### *1.2 Applications of SORA*

- Film previsualization
- Educational video creation
- Advertisement concept design
- Simulation in gaming
- Storytelling and marketing content

#### *1.3 Limitations of SORA*

- Limited availability to public

- May hallucinate or distort real-world accuracy
  - Cannot generate copyrighted or real identities
  - Prompt wording heavily affects the output
  - Ethical concerns in content generation.
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## Assignment Tasks

### ***Task 1: Research & Summarize***

Write a 300–500 word summary covering the following:

- What is SORA?
- Comparison with DALL·E or alternatives like Pika Labs or RunwayML
- Ethical considerations in video generation

### ***Task 2: Prompt Engineering Practice***

Write 5 creative prompts across diverse domains (education, entertainment, environment, technology, etc.).

Example: 'A 10-second animation of a plastic bottle drifting across an ocean with marine life swimming in the background.'

### ***Task 3: AI + Creativity Simulation***

Choose a role such as a content creator, educator, or storyteller. Design a 15-second SORA video explaining one of the following:

- Climate Change
- Photosynthesis

- How AI Works
- A Short Story with a Twist

Include your detailed prompt and a scene-by-scene breakdown.

***Practice Activity (Without Direct SORA Access)***

If direct access to SORA is unavailable:

- Use DALL·E to generate keyframes.
- Simulate a video using CapCut or Canva.
- Add narration or subtitles to complete your concept.