



## GENAI LAB 1

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**SECTION: C**

## OUTPUT TABLE

Task	Model	Classification (Success/Failure)	Observation (What actually happened?)	Why did this happen? (Architectural Reason)
Generation	BERT	Failure	Model threw error / could not generate text	Encoder-only model cannot autoregressively generate tokens
Generation	RoBERTa	Failure	Similar failure as BERT	Encoder-only architecture, no decoder
Generation	BART	Success	Generated a continuation of the prompt	Encoder-Decoder supports sequence generation
Fill-Mask	BERT	Success	Predicted words like "generate", "create"	Trained on Masked Language Modeling
Fill-Mask	RoBERTa	Success	Strong, high-confidence predictions	Optimized MLM training
Fill-Mask	BART	Partial	Predictions less precise	Designed for denoising seq2seq
QA	BERT	Partial Failure	Returned entire sentence with low confidence	Not fine-tuned for QA
QA	RoBERTa	Failure	Returned single token	QA span selection is untrained

<b>Task</b>	<b>Model</b>	<b>Classification (Success/Failure)</b>	<b>Observation (What actually happened?)</b>	<b>Why did this happen? (Architectural Reason)</b>
			"Generative"	
QA	BART	Failure	Returned incorrect span with slightly higher confidence	Encoder–Decoder architecture cannot compensate for lack of QA fine-tuning