Bahria University,
Karachi Campus

LAB EXPERIMENT NO.
<u>09</u>

LIST OF TASKS

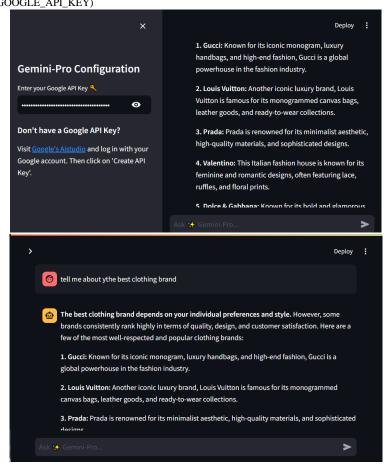| TASK NO	OBJECTIVE
1.	Imagine a customer browsing an online clothing store. They are looking for a stylish yet affordable dress for an upcoming party. Overwhelmed by the numerous options available and unsure how to filter through the choices effectively, they encounter a Gen AI chatbot powered by the OpenAI API, designed to provide a seamless and personalized shopping experience.

Submitted On:
<u>6/10/2024</u>

TASK NO 1: Imagine a customer browsing an online clothing store. They are looking for a stylish yet affordable dress for an upcoming party. Overwhelmed by the numerous options available and unsure how to filter through the choices effectively, they encounter a Gen AI chatbot powered by the OpenAI API, designed to provide a seamless and personalized shopping experience.

```python
import os
import streamlit as st
from dotenv import load_dotenv
import google.generativeai as gen_ai
load_dotenv()
# Configure Streamlit page settings
st.set_page_config(
    page_title="Gemini-Pro Chatbot ",
    page_icon=":alien:",
    layout="centered",
)
st.sidebar.title("Gemini-Pro Configuration")
GOOGLE_API_KEY = st.sidebar.text_input("Enter your Google
API Key 🔑", type="password")
st.sidebar.subheader("Don't have a Google API Key?")
st.sidebar.write("Visit [Google's
Aistudio](https://aistudio.google.com/app/apikey) and log in with
your Google account. Then click on 'Create API Key'.")
if not GOOGLE_API_KEY:
    st.error("🔒 Please enter your Google API Key .")
    st.stop()
gen_ai.configure(api_key=GOOGLE_API_KEY)

model = gen_ai.GenerativeModel('gemini-1.0-pro')
def translate_role_for_streamlit(user_role):
    if user_role == "model":
        return "assistant"
    else:
        return user_role
if "chat_session" not in st.session_state:
    st.session_state.chat_session = model.start_chat(history=[])
st.title("🤖 Gemini Pro - ChatBot")
for message in st.session_state.chat_session.history:
    with st.chat_message(translate_role_for_streamlit(message.role)):
        st.markdown(message.parts[0].text)
user_prompt = st.chat_input("Ask ✨ Gemini-Pro...")
if user_prompt:
    st.chat_message("user").markdown(user_prompt)
    gemini_response =
st.session_state.chat_session.send_message(user_prompt)
    with st.chat_message("assistant"):
        st.markdown(gemini_response.text)
```