

Note:

1. Copied tasks will be awarded **zero** marks without any investigation.
2. Comments your code properly.
3. Note that these tasks marks could be graded through a viva in the lab.
4. Please submit your file in this format (roll-no-name) i.e (22P-9111-Saad.c)

Q1) Create a file using MS word and that should contain the following content

1. Title page (i. Title of the document/Topic, ii. University logo, iii. Author/student name, iv. Submitted to i.e teacher name and v. University name (Full))
2. Create a table of contents page that must entail the information about headings and subheadings.
3. The documents must have these 6 headings
 - a. Introduction: Topics introduction
 - b. Key Concepts
 - c. Challenges and limitations
 - d. Future Trends
 - e. Case Studies
 - f. Conclusion
4. The document must have header and a footer. The header part must contain the topic/heading name on each page except the title page. The footer part must have page numbers except the title page. Make sure to give number to table of contents page as "i" and the page that would contain introduction must be numbered as "1"

Note: Choose any topic, you can add a detailed information on the topic of your presentation. Note that the students who would write on their presentation must do this individually, meaning any copy pasted content will be marked zero, so do you own research.

Q2) Solve the following

1. @, ^, 10, 9, A, Z to $(?)_2$
2. $(110001)_2 + (10)_{10} = (?)_2$
3. $(3AD)_{16} + (A2A)_{16}$

4. $(16)_{10} - (1011)_2 = (?)_{10}$

Q3) Create the following web page:

Exploring Artificial Intelligence

What is Artificial Intelligence?

Artificial Intelligence (AI) is the simulation of human intelligence in machines that are programmed to think and learn like humans.

Key Components of AI

- Machine Learning
- Natural Language Processing (NLP)
- Computer Vision
- Robotics

Applications of AI

- Virtual Assistants (e.g., Siri, Alexa)
- Recommendation Systems
- Autonomous Vehicles
- Healthcare Diagnostics

Challenges and Ethical Considerations

While AI offers many benefits, there are challenges such as bias in algorithms, job displacement, and ethical concerns regarding privacy and decision-making.

Tag-hints: <Style>, <header>,<main>,<section>