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## *Assignment (1)*

1. What is the definition of geodesy and what are its main objectives?
2. How can geodesy be applied in different branches and fields?
3. Provide a brief overview of the history of geodesy and its development over time.
4. What are the main factors that determine the shape and size of the Earth?
5. Explain the concept of latitude and longitude and their significance in geodesy.
6. What is the geoid and how does it differ from the Earth's actual shape?
7. Describe the concept of an ellipsoid and its relationship to the Earth's shape.
8. How is geodesy used in modern navigation systems and satellite positioning?
9. What are some of the challenges and limitations in measuring and representing the Earth's shape accurately?
10. What are the main techniques used in geometric geodesy to measure and analyze the Earth's surface properties?
11. What are the main aspects of the Earth's physical properties that are studied in physical geodesy?
12. Can you provide examples of practical applications of geodesy in engineering, mapping, and surveying?