

**Pune Vidyarthi Griha's**  
**COLLEGE OF ENGINEERING, NASHIK – 4**  
**COMPUTER ENGINEERING DEPARTMENT**

**Subject : PPL**

**ASSIGNMENT NO – 02**

**Unit : II**

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1. What are primitive data types? List the primitive data types in Java and their respective storage capacity.
2. Explain how following concepts are used in design of data types with examples:
  - (i) Data Aggregates and type constructors
  - (ii) Cartesian Product
  - (iii) Sequencing
3. What is purpose of checking type compatibility. Explain various type of compatibility checks.
4. What are benefits of implementing built-in data types in programming languages ? State the built-in data types implemented by C++.
5. What are abstract data types ? How C++ implements abstract data types ? Give example.
6. What are generic data structures and generic algorithms ? How C++ implements this generic programming constructs ? Give example of each.
7. List and discuss the statement level control structure and unit level control structure with their syntax.
8. What do you mean by Syntax ? State and draw the EBNF definition for Syntax Rules.
9. What is generic programming ? How C++ offers generic programming constructs ? Give example.
10. Explain by example the use of the following data aggregates to construct compound data types :
  - (1) Powerset
  - (2) Finite Mapping.

\*\*\*\*\* **Best of Luck** \*\*\*\*\*