## CDAC Mumbai PG-DAC August 24

## **Assignment No-4**

- 1) Write a program that demonstrates widening conversion from int to double and prints the result.
- 2) Create a program that demonstrates narrowing conversion from double to int and prints the result.
- 3) Write a program that performs arithmetic operations involving different data types (int, double, float) and observes how Java handles widening conversions automatically.
- 4) Write a Program that demonstrates widening conversion from int to (double, float, boolean, string) and prints the result.

## INTERVIEW QUESTIONS

Note: Write down this interview question on your notebook, Take a screenshort & Paste that SS in the word document & upload on your Github. What does the static keyword mean in Java? Explain the difference between static and non-static methods.

1. What is the role of the static keyword in the context of memory

- management.
- 2. Can static methods be overloaded and overridden in Java? Howstatic variables shared across multiple instances of a class?
- 3. What is the significance of the final keyword in Java?
- 4. What are narrowing and widening conversions in Java?
- 5. Provide examples of narrowing and widening conversions between primitive data types.
- 6. How does Java handle potential loss of precision during narrowing conversions?
- 7. Explain the concept of automatic widening conversion in Java.
- 8. What are the implications of narrowing and widening conversions on type compatibility and data loss?