



**SYBCA – (SEM – III)**  
**304-OOPs and Data Structures**

**ASSIGNMENT 1**

1. What is operator overloading? Write different rules to overload operators. Also, explain operator overloading with an example.
2. Explain Circular Queue with proper example. Discuss advantages of Circular Queue over simple queue.

**ASSIGNMENT 2**

1. Write an algorithm to insert and delete element in a stack.
2. Explain input and output restricted queue with proper example.

**ASSIGNMENT 3**

1. What are constructor and destructor? Explain copy and parameterized constructor with an example.
2. Explain Run time polymorphism with an example.

**ASSIGNMENT 4**

1. Explain Tower of Hanoi as application of stack.
2. Explain Inheritance and its types in detail.

**NOTE:**

1. Assignment – I & II must be written in one assignment book and Assignment – III & IV must be written in another assignment book.
2. Date of assignment submission is declared during the lecture.
3. Late Submission will not be accepted.

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