

ECAP615

Programming in Java



Harjinder Kaur
Assistant Professor

Learning Outcomes



After this lecture, you will be able to

- learn the basic concept of PriorityQueue class along with its declaration.
- understand the various methods of PriorityQueue class.

PriorityQueue class

- The PriorityQueue class provides the facility of using queue.
- But it does not orders the elements in FIFO manner.
- It inherits AbstractQueue class.
- A PriorityQueue is used when the objects are supposed to be processed based on the priority.

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Declaration of PriorityQueue class

Syntax:

```
public class PriorityQueue<E> extends  
AbstractQueue<E> implements Serializable
```

PriorityQueue Insertion and accessing

For inserting elements we have the following methods:

- add()
- offer()

Access PriorityQueue Elements

- To access elements from a priority queue, we can use the peek() method.
- This method returns the head of the queue.

Remove PriorityQueue Elements

To remove PriorityQueue elements we use the following methods:

- `remove()`
- `poll()`

Iterating a PriorityQueue

- To iterate over the elements of a priority queue, we can use the iterator() method.
- In order to use this method, we must import the `java.util.Iterator` package.

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That's all for now...