Institute of Computer Technology

B. Tech Computer Science and Engineering

Subject: OOP (2CSE303)

**PRACTICAL-24**

**AIM: - Rajiv was assigned a task to structure the data using a FIFO based Queue interface wherein he was asked to structure the programming subjects semester wise within the queue followed by retrieval of the head element of the queue. Remove the two heads of the queue and add an element as 'Semester 6: Pascal' into the queue. Display the overall list of elements present within the queue.**

***SOLUTION***

package practicals;

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import java.util.\*;

class prac24{

public static void main(String[] args) {

Queue<String> q = new PriorityQueue<>();

q.add("Semester 1: C++");

q.add("Semester 2: C#");

q.add("Semester 3: Java");

q.add("Semester 4: Python");

q.add("Semester 5: Ruby");

System.out.println("Head Element: "+q.element());

System.out.println("Head Element: "+q.peek());

System.out.println("Iterating the Queue Elements: ");

Iterator itr = q.iterator();

while (itr.hasNext()) {

System.out.println(itr.next());

}

q.remove();

q.poll();

q.offer("Semester 6: Pascal");

System.out.println("After removing two elements from the queue:");

Iterator itr2 = q.iterator();

while (itr2.hasNext()) {

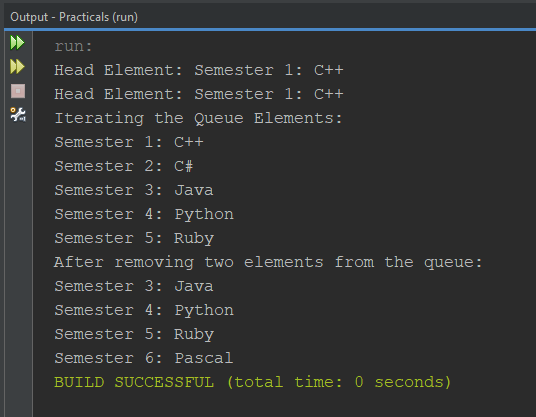
System.out.println(itr2.next());

}

}

}

***OUTPUT***

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