```
package cpu;
import Items.Cell;
import Items.Job;
import java.util.ArrayList;
/**
* Responsible for viewing the GanttChart queue in the GUI frame by setting
* the place and the color of every job representation
public class GanttChart {
  // gantt chart
  private static int ganttX = 20; // start drawing point on x-coordinate
  private static final int ganttY = 411; // Gantt location on y-coordinate
  private static int ganttLastJob = 0; // show the number of the last job got represented in the Gantt
  public static ArrayList<Cell> List = new ArrayList<Cell>(100); // list of gantt chart jobs' represnation
  * update the gantt chart representation by adding a new job cell
  * to the end.
   * @param job job to be represented in the gantt chart
  * @param time time of the simulation
  public static void addJob(Job job , int time){
   Cell cell;
   if(job == null)
   {cell = Cell.createEmptyJobCell(ganttX, ganttY);} // represent empty job( white small cell)
   else
   {
      if(job.jobNumber != ganttLastJob) // put 2 pixel margin between every two different jobs
        ganttX += 1;
        ganttLastJob = job.jobNumber;
      cell = Cell.createGanttCell(ganttX, ganttY, job.jobNumber);
    }
   ganttX += 6; // set next job location
   List.add(cell); // add cell to gantt chart list
   if( (time+1) % 10 == 0 )
      List.add(Cell.createMark(ganttX -1, ganttY+50)); // put small black mark every 10 times
  }
  /**
```

```
* clear gantt chart list out of cell objects, and reset other variables
*/
public static void clear(){
    List.clear();
    ganttX = 20; // start location on x-coordinate
    ganttLastJob = 0; // default job number
}
```