**Code(non-preemptive priority scheduling)**:

package com.company;

import java.util.Arrays;

import java.util.Comparator;

import java.util.Scanner;

public class Main {

static Scanner in = new Scanner(System.in);

public static void main(String[] args) {

int[] process = setBurstTime();

int[] priority = setPriority(process.length);

int[][] test = new int[process.length][2];

for(int i=0;i<process.length;i++) {

test[i][0] = priority[i];

test[i][1] = process[i];

}

displayProcesses(process, priority);

calcWaitingTime(test, 0);

}

static int[] setBurstTime(){

System.out.print("Enter the no. of processes: ");

int n = in.nextInt();

int[] arr = new int[n];

System.out.print("\nEnter burst time for each process: ");

for (int i = 0; i < arr.length; i++) {

arr[i] = in.nextInt();

}

return arr;

}

static int[] setPriority(int n) {

int[] priority = new int[n];

for (int i = 0; i < priority.length; i++){

System.out.print("Enter priority of P"+ (i + 1) + ": ");

priority[i] = in.nextInt();

}

return priority;

}

static void displayProcesses(int[] arr1, int[] arr2){

System.out.println("| Process\t\t|\tBurst Time |\tPriority |");

for (int i = 0; i < arr1.length ; i++) {

System.out.println("| P"+ (i + 1) + "\t\t\t|\t" + arr1[i] + "\t\t\t|\t" + arr2[i] + "\t\t |");

}

System.out.println("+---------------------------------------------+");

}

static void calcWaitingTime(int[][] arr, int basedOnIndex){

int waitingTime, sumWT, sumTAT;

waitingTime = sumWT = sumTAT = 0;

Arrays.sort(arr, new Comparator<int[]>() {

@Override

public int compare(int[] o1, int[] o2) {

if(o1[basedOnIndex] > o2[basedOnIndex]) {

return 1;

}

return -1;

}

});

System.out.println("Waiting time & Turn around time:\n| Process\t\t| Waiting Time | Turn Around Time |");

for (int i = 0; i < arr.length; i++) {

int turnAroundTime = 0;

if(i != 0)

waitingTime += arr[i-1][1];

int j = i;

while( j >= 0){

turnAroundTime += arr[j][1];

j--;

}

System.out.println("| P"+ (i + 1) + "\t\t\t| " + waitingTime + "\t\t\t | " + turnAroundTime + "\t\t\t\t\t|");

sumWT += waitingTime;

sumTAT += turnAroundTime;

}

System.out.println("+-------------------------------------------------------+");

System.out.println("Average waiting time = " + (float)sumWT / arr.length);

System.out.println("Average turn around time = " + (float)sumTAT / arr.length);

}

}

**OUTPUT:-**

