Practical 2

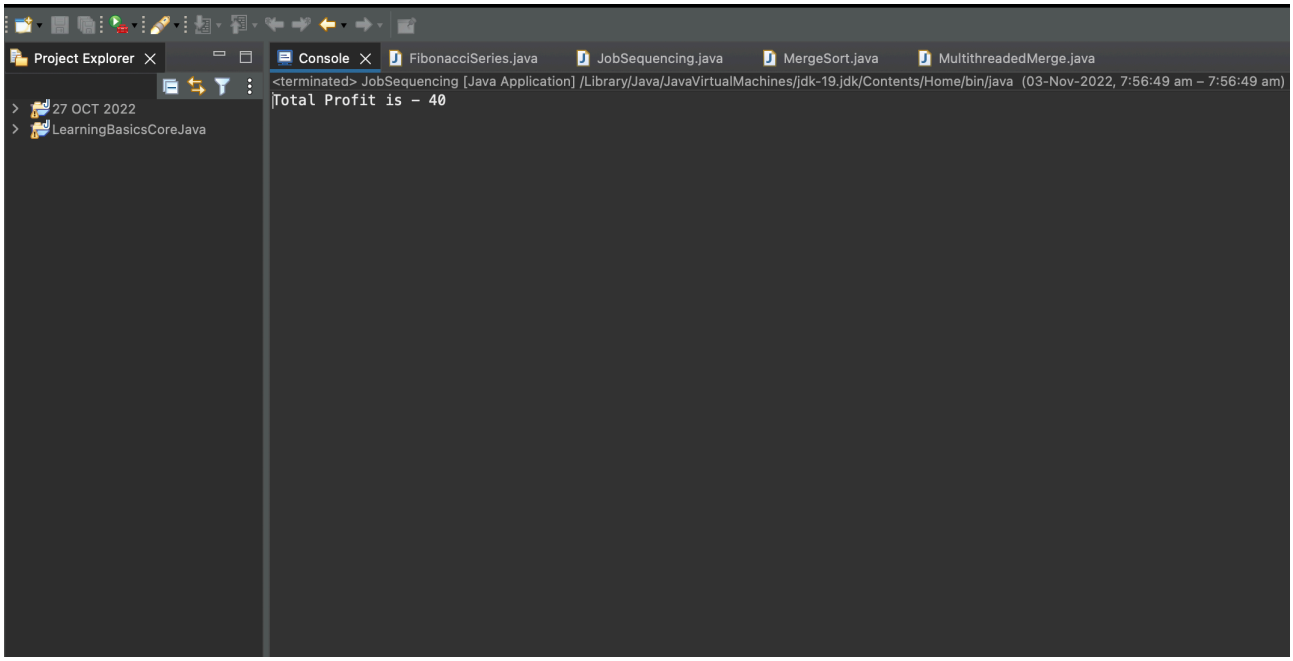
Practical - Implement job sequencing with deadlines using a greedy method.

Code -

```
package sanketscode;

public class JobSequencing {

	public static void main(String[] args) {

		//1 Create an Input

		int[] profits = {20,15,10,5,1};
		int[] deadline = {2,2,1,3,3};
		int ans = 0;
		int big = 0;


		//check the biggest deadline

		for(int value : deadline) {
			if(value > big) {
				big = value;
			}
		}



		//create empty array for storing profits

		int[] deadlineValues = new int[big];

		//2 Check the dead line with its slot

		for(int i=0;i < profits.length;i++) {
			int check = deadline[i];
			if(deadlineValues[check-1] == 0) {
				deadlineValues[check-1] = profits[i];
			}else {
				for(int j=check-1;j >= 0;j--) {
					if(deadlineValues[j] == 0) {
						deadlineValues[j] = profits[i];
						break;
					}
```

```
                    }
                }
            }

            for (int value : deadlineValues) {
                ans += value;
            }

            System.out.println("Total Profit is - "+ans);

            //3  adding all profit
        }

}
```

Output -



Conclusion - Job Sequencing Can Be Done with Program.