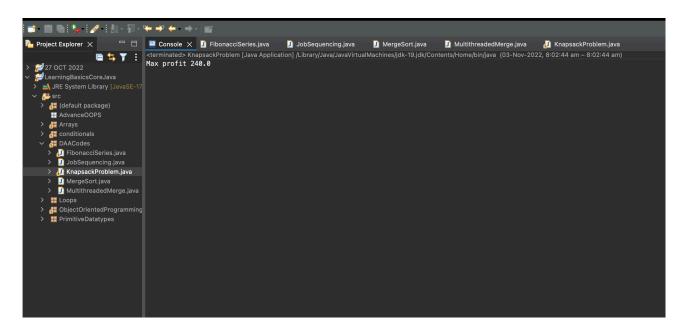
Practical 3

Practical - Write a program to solve a fractional Knapsack problem using a greedy method.

```
Code -
package sanketscode;
import java.math.BigDecimal;
public class KnapsackProblem {
      public static void main(String∏ args) {
           //1. Create Input values
           int m = 50; //capacity
           int[] Pi = \{ 60, 100, 120 \};
           int || wi = {10,20,30};
           int n = wi.length;
           double[] piwi = new double[n];
           double ans = 0;
           double containedProfit = 0;
           for(int i=0; i < n; i++) {
                piwi[i] = Pi[i]/wi[i];
           }
           double bigPiwi = 0;
           do {
                bigPiwi = 0;
                for (int i=0;i < piwi.length;i++) {
                     if(piwi[i] > bigPiwi) {
                          bigPiwi = piwi[i];
               }
               for(int i=0; i < n; i++) {
                     if(bigPiwi == piwi[i]) {
                          if((m - wi[i]) >= 0) {
                               m = m - wi[i];
```

Output -



Conclusion - These Problems can be solved using fractional knapsack problem.