GA Programming Assignment #5

1. Write a GA algorithm based on our slides for the 0-1 knapsack problem discussed in the class.
2. Develop a Java Program to implement your GA algorithm.
3. Use the following example to show your program working properly.

, this is the maximum weight of the objects that the knapsack can carry.

|  |  |  |
| --- | --- | --- |
| item | weight | profit |
| 1 | 3 | 9 |
| 2 | 2 | 5 |
| 3 | 5 | 14 |
| 4 | 4 | 11 |
| 5 | 6 | 16 |
| 6 | 3 | 8 |
| 7 | 4 | 13 |
| 8 | 1 | 3 |
| 9 | 7 | 15 |
| 10 | 8 | 23 |
| 11 | 9 | 29 |

請繳交Java source code 和一份說明文件。The document must contain your algorithm and screenshots for running the example described in step 3。

無說明文件，以零分計算此作業。