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Ex1 Code:

```
lef read_input(filename):
   with open (filename, 'r') as file:
            items.append((weight, value))
def write_output(filename, selected_items):
             file.write(f"{item}\n")
def knapsack dp(num items, knapsack capacity, items):
            weight, _ = items[i - 1]
selected_items.append(i)
def solve knapsack(input filename, output filename):
```

Ex1 Output:

```
PythonProject5
1

Input.txt
2

Input.txt
2

Input.txt
3

Input.txt
2

Input.txt
3

Input.txt
4

Solution.txt
4

Scratches and C
5
```

Ex2

Text

Screenshot

Selected items: 2 3 6 7 8 9 10 11 12 13 15 16 17 18

