Question 1:

Write a program using Dynamic Programming Technique for:

Given a string `s`, return *the longest palindromic substring* in `s`.

Example 1:

```
Input: s = "babad"

Output: "bab"

Note: "aba" is also a valid answer.
```

Example 2:

```
Input: s = "cbbd"

Output: "bb"
```

Example 3:

```
Input: s = "a"

Output: "a"
```

Example 4:

```
Input: s = "ac"

Output: "a"
```

Constraints:

- `1 <= s.length <= 1000`
- `s` consist of only digits and English letters (lower-case and/or upper-case),

Question 2:

Write a program to implement Knapsack problem using Dynamic programming approach with the following data:

Consider the following knapsack and collection of items:

Knapsack: W = 15

Items:

Item	Weight	Value
1	2	1
2	10	20
3	3	3
4	6	14
5	18	100