Code Implementation:

```
Import random

# Define the crossword puzzle grid size
GRID_SIZE = 15

# Define the crossword puzzle grid
Grid = [['_' for _ in range(GRID_SIZE)] for _ in range(GRID_SIZE)]

# Define the crossword puzzle clues
Clues = {
  'Across': {
    '1': {'clue': 'Flower', 'answer': 'ROSE', 'row': 0, 'col': 0},
    '2': {'clue': 'Animal', 'answer': 'CAT', 'row': 2, 'col': 0},
    '3': {'clue': 'City', 'answer': 'PARIS', 'row': 4, 'col': 0},
  },
  'Down': {
    '1': {'clue': 'Food', 'answer': 'PIZZA', 'row': 0, 'col': 2},
    '2': {'clue': 'Sport', 'answer': 'FOOTBALL', 'row': 0, 'col': 4},
    '3': {'clue': 'Music', 'answer': 'GUITAR', 'row': 2, 'col': 2},
  }
}

# Function to print the crossword puzzle grid
Def print_grid():
```

```
    For row in grid:
        Print(‘ ‘.join(row))


# Function to fill in the crossword puzzle grid with answers
Def fill_grid():
    For direction, clues_list in clues.items():
        For clue_id, clue in clues_list.items():
            Answer = clue[‘answer’]
            Row = clue[‘row’]
            Col = clue[‘col’]
            If direction == ‘Across’:
                For I, letter in enumerate(answer):
                    Grid[row][col + i] = letter
            Elif direction == ‘Down’:
                For I, letter in enumerate(answer):
                    Grid[row + i][col] = letter


# Function to play the crossword puzzle game
Def play_game():
    Fill_grid()
    Print(“Welcome to the Crossword Puzzle Game!”)
    Print_grid()
    While True:
        Direction = input(“Enter the direction (Across/Down): “)
        Clue_id = input(“Enter the clue ID: “)
        Answer = input(“Enter your answer: “)
```

If direction == ‘Across’:

Clue = clues[‘Across’][clue_id]

Elif direction == ‘Down’:

Clue = clues[‘Down’][clue_id]

If answer.upper() == clue[‘answer’]:

Print(“Correct!”)

Else:

Print(“Incorrect. The correct answer is”, clue[‘answer’])

Start the game

Play_game()

```


```


IDLE Shell 3.12.6
File Edit Shell Debug Options Window Help
Python 3.12.6 (tags/v3.12.6:a4a2d2b, Sep 6 2024, 20:11:23) [MSC v.1940 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/My Pc/AppData/Local/Programs/Python/Python312/bia final project.py
Welcome to the Crossword Puzzle Game!
R O P E F _ _ _ _ _ _ _ _ _ _
_ _ I _ O _ _ _ _ _ _ _ _ _ _
C A G _ O _ _ _ _ _ _ _ _ _ _
_ _ U _ T _ _ _ _ _ _ _ _ _ _
P A I I B _ _ _ _ _ _ _ _ _ _
_ _ T _ A _ _ _ _ _ _ _ _ _ _
_ _ A _ L _ _ _ _ _ _ _ _ _ _
_ _ R _ L _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Enter the direction (Across/Down):