

```
import random
```

```
def hangman_game():
```

```
    words = ["monkey", "moon", "sunday", "programming"]
```

```
    word = random.choice(words)
```

```
    guessed_word = ["_"] * len(word)
```

```
    attempts = 6
```

```
    print("Welcome to Hangman!")
```

```
    print("Guess the word:")
```

```
    print(" ".join(guessed_word))
```

```
    while attempts > 0 and "_" in guessed_word:
```

```
        guess = input("\nEnter a letter: ").lower()
```

```
        if len(guess) != 1 or not guess.isalpha():
```

```
            print("Invalid input. Please enter a single letter.")
```

```
            continue
```

```
        if guess in word:
```

```
            print(f"Good job! '{guess}' is in the word.")
```

```
            for i in range(len(word)):
```

```
                if word[i] == guess:
```

```
                    guessed_word[i] = guess
```

```
        else:
```

```
            attempts -= 1
```

```
            print(f"Wrong guess. You have {attempts} attempts left.")
```

```
    print(" ".join(guessed_word))
```

```
    if "_" not in guessed_word:
```

```
        print("\nCongratulations! You guessed the word:", word)
```

```
    else:
```

```
        print("\nGame Over. The word was:", word)
```

```
hangman_game()
```