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Encryption and decryption:
def encrypt_word(word):
   result = []
    for char in word:
        ascii value = ord(char)
        modified ascii = ascii value + 3
        binary_value = bin(modified_ascii)[2:].zfill(8)
        first_half = binary_value[:4]
        second_half = binary_value[4:]
        if first_half.count('1') % 2 == 1:
            first_half = '1' + first_half
        else:
            first_half = '0' + first_half
        if second_half.count('1') % 2 == 1:
            second_half = '0' + second_half
        else:
            second_half = '1' + second_half
        result.append(first_half + second_half)
    return ''.join(result)
def decrypt_word(encrypted_bits):
    original_word = []
    for i in range(0, len(encrypted bits), 10):
        encrypted_char = encrypted_bits[i:i+10]
        first half = encrypted char[:5]
        second_half = encrypted_char[5:]
        first half = first half[1:]
        second_half = second_half[1:]
        original_binary = first_half + second_half
        ascii_value = int(original_binary, 2)
        original_ascii = ascii_value - 3
        original_word.append(chr(original_ascii))
    return ''.join(original_word)
# Example usage
word=str(input("Enter an word:"))
encrypted_bits = encrypt_word(word)
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decrypted word = decrypt word(encrypted bits)
print("Original Word:", word)
print("Encrypted Bits:", encrypted_bits)
print("Decrypted Word:", decrypted_word)
CricketMatch
class CricketMatch:
   def __init__(self):
        self.total score = 0
        self.total_players = 11
        self.total_balls = 10
    def process_input(self, input_str):
        for entry in input_str.split():
            if 'wk' in entry:
                self.total_players -= 1
                print("Player out")
            elif 'no' in entry:
                runs = int(''.join(filter(str.isdigit, entry)))
                self.total score += runs
                self.total balls += 1
                print(f"No Ball! Added {runs} runs and increased ball count by 1.")
            elif 'wd' in entry:
                runs = int(''.join(filter(str.isdigit, entry)))
                self.total_score += runs
                print(f"Wide Ball! Added {runs} runs.")
            else:
                runs = int(entry)
                self.total score += runs
            self.total_balls -= 1
            if self.total_balls <= 0 or self.total_players <= 0:</pre>
                print("Match over!")
                print(self.score_card())
                return
    def score card(self):
        return f"Total Score: {self.total_score}, Total Players:
{self.total_players}, Total Balls: {self.total_balls}"
match = CricketMatch()
print("Give the input like 4 wk-wicket wd-wide ")
input_sequence = str(input("Enter the input sequence"))
match.process input(input sequence)
print(match.score_card())
```