Here are each of the answers with the key:

1) IT RAINS EVERY DAY SO BRING YOUR UMBRELLA (SHIFT = 8)

2) UCF HAS AWESOME RESTAURANTS IN THE SURROUNDING AREA WHICH ONE IS YOUR FAVORITE MY NEW FAVORITE IS JIMMY HULAS (SHIFT = 15)

3) A THOUGHT WITHOUT A COMMON CHAR FROM A TO Z WHAT IS THAT CHAR (SHIFT = 24)

4) SPANISH IS BACK NO I AM KIDDING THIS IS A MESSAGE ABOUT SPANISH IN ENGLISH (SHIFT = 21)

For each of these, brute force should be sufficient. One can input the cipher text and try all 26 possible keys, print out the result and pick the one that looks like English. Here is a function to automate the brute force:

```c
void printAll(char msg[]) {  
    int i, key;  

    // Try each key.
    for (key=0; key<26; key++) {  

        // Encrypt each letter.
        for (i=0; i<strlen(msg); i++) {  
            if ('a' <= msg[i] && msg[i] <= 'z')
                printf("%c", (msg[i] - 'a' + key)%26 + 'a');
            else
                printf("%c", msg[i]);
        }
        printf("\n");
    }
}
```

Note that in this solution, key will be a positive value such that (26 – key)%26 was the actual encryption key, since we’re adding key instead of subtracting it.

**Grading Criteria:**

5 points for each problem. Give 4 points if the plain text is correct and 1 point if they wrote either the encryption or decryption key.