LAB QUESTIONS

Write C Program to Concatenate Two Strings.

```
Enter first string: Ahmet

Enter second string: Ali

After concatenation: AhmetAli
```

Write C Program to Remove all Characters in a String Except Alphabet

```
Enter a string: p2'r-o@gram84iz./

Output String: programiz
```

Write C Program to Count the Number of Vowels, Consonants and so on

```
Enter a line of string: adfslkj34 34lkj343 34lk
Vowels: 1
Consonants: 11
Digits: 9
White spaces: 2
```

Write C Program to Sort Strings in Dictionary Order

```
Enter 10 words:
C
C++
```

```
Java
PHP
Python
Perl
Ruby
R
JavaScript
PHP

In lexicographical order:
C
C++
Java
JavaScript
PHP
PHP
Perl
Python
R
Ruby
```

```c
#include <stdio.h>
#include <string.h>

int main() {

    char first[50], second[50];
    int i;

    printf("Enter first word: ");
    scanf("%s", first);

    printf("Enter second word: ");
    scanf("%s", second);

    int len = strlen(first);
    char reversedFirst[50];

    for ( i = 0; i < len; i++) {
        reversedFirst[i] = first[len - 1 - i];
    }
    reversedFirst[len] = '\0';

    strcat(second, reversedFirst);

    printf("Sonuc: %s\n", second);

    return 0;
}
```

```c
#include <stdio.h>
#include <stdlib.h>

int main(){

    char word[1000];
    gets(word);
    int i;

    for(i=0;word[i]!='\0'; i++){

        if(word[i]>='a' && word[i]<='z'){
            printf("%c", word[i]);
        }

    }
    return 0;
}
```

```c
#include <stdio.h>
#include <stdlib.h>

int main(){

    int vowels = 0;
    int constants =0;
    int digits = 0;
    int spaces = 0;

    char array[1000];
    printf("Enter something: ");
    gets(array);


    int i;
    for( i = 0; array[i]!='\0'; i++){

        if(array[i]=='a' || array[i]=='e' || array[i]=='i' || array[i]=='u' || array[i]=='o')
            vowels++;
        else if (array[i]>'a' && array[i]<='z')
            constants++;
        else if(array[i]>=0 || array[i]<10)
            digits++;
        else if(array[i]==' ')
            spaces++;
    }
    printf("\nVowels: %d", vowels);
    printf("\nConstants: %d", constants);
    printf("\nDigits: %d", digits);
    printf("\nWhite spaces: %d", spaces);


    return 0;
}
```

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

int main() {
    char words[10][50];
    char temporary[50];
    int i;
    int j;

    printf("Enter 10 words:\n");
    for ( i = 0; i < 10; i++) {
        printf("Word %d: ", i + 1);
        scanf("%s", words[i]);
    }


    for ( i = 0; i < 10 - 1; i++) {
        for ( j = i + 1; j < 10; j++) {
            if (strcmp(words[i], words[j]) > 0) {
                strcpy(temporary, words[i]);
                strcpy(words[i], words[j]);
                strcpy(words[j], temporary);
            }
        }
    }


    printf("\nIn lexicographical order:\n");

    for ( i = 0; i < 10; i++) {
        printf("%s\n", words[i]);
    }

    return 0;
}
```