1. What is the output of the following program:

```
char input[20]=”International University ”,  *p, *temp;
strcpy(temp, input);
do
{
        p = strtok(temp, " ");
        printf("%s\n",p);
        p = strtok(NULL, "");
        strcpy(temp, p);
}while(p!=NULL);
printf(“String temp: %s \n String input: %s”, temp, input);
```

2. What is the output of the following program:

```
char s1[25]=” International University”,  s2[10]=”Tp. HCM”, *input, *s3;
strcpy(input, s1);
strcpy(s3,”aeiou”);
strcat(input, s2);
int n=strlen(input), k=0;
printf(“String: %s”,input);
for(int i=0; i<n; i++)
{
  if(strchr(s3, input[i]))
        k++;
}
printf(“\nKet qua: %d”, k);
```

3. Write program to input a string, count the number of character in the string
4. Write program to count the number of whitespaces within a string.
5. Write program to input a string, remove all abundant whitespaces from the string.
6. Write program to input two strings $s_1, s_2$. Concatenate $s_2$ into $s_1$and output $s_1$.

7. Convert all characters within a string into lowercase (without using the function strlwr).
8. Convert all characters within a string into uppercase (without using the function strupr).
9. Write program to convert a string into title-case (uppercase the first letter of each word).
10. Write program to make a string uppercase and lowercase interleaved.

E.g: Convert ABCDEfgh into AbCdEfGh

11. Write program to reverse a string.

E.g: Convert ABCDE, output: EDCBA

12. Write a program to search for a character and output it's found position.
13. Write a program to count the occurrences of a character in a string.
14. Write a program to search for a name inside a full name string. If found, inform the user whether the name was correctly entered or not.
15. Write program to swap the first and last word inside a string.

E.g: Input "I was you" Output "You was I"

16. Write a program to split a full name string into two strings containing the first name and last name.

E.g: The string "Nguyễn Văn A" is splitted to "Nguyễn Văn" and "A"

17. Write function to check for palindrome string.
18. Write function to check a string whether it contains digits and extract the digits (if exist) into a separated array.
19. Input a string a character $c$ to delete. Remove all occurrences of $c$ from the string.
20. Write program to print out the character which has the highest frequency.
21. Write a program to delete a word from a string.

E.g: Given string: "Faculty of Information Technology"

Input: "Technology", result: "Faculty of Information"