Week 3 (Assignment III)

1. Write a C program to remove a specific character from a string.
2. Write a C program to count the frequency of each character of the string.
3. Write a C program to add two numbers using pointers.
4. Write a C program to find the factorial of a number using pointers.
5. Find the output of the following snippets:
   a. char ****k;
      - i)   k is a pointer to a pointer to a pointer to a char
      - ii)   k is a pointer to a pointer to a pointer to a pointer to a char
      - iii)   k is a pointer to a char pointer
      - iv)   k is a pointer to a pointer to a char
   b. void main()
      {
        int k = 5;
        int *p = &k;
        int **m = &p;
        **m = 6;
        printf("%d\n", k);
      }

      - i)   7
      - ii)   4
      - iii)   6
      - iv)   Error
6. Choose the correct statement about structures in C program:
   a. Structure elements can be initialized at the time of declaration.
   b. Structure members cannot be initialized at the time of declaration
   c. Only integer members of structure can be initialized at the time of declaration
   d. None of the above
7. What is the size of a C structure? How the size of a C structure is calculated?