## CT - 2

1. Write a C program to find the frequency of each digit in a given integer using an array.

```
#include<stdio.h>
 2
 3
        int main()
 4
      □ {
            int num ,dig, i;
 5
            int f[10]= {};
printf("Enter a number: ");
 6
 7
 8
            scanf("%d", &num);
 9
            while (num > 0)
10
11
                dig = num \% 10;
12
                f[dig]++;
                num = num/10;
13
14
15
            printf("Frequencies:\n");
16
            for (i = 0; i < 10; i++)
17
18
                printf("%d - %d\n",i, f[i]);
19
20
            return 0;
21
22
```

2. Write a C program to convert a binary number to its decimal representation.

```
#include<stdio.h>
 1
 2
 3
       int main()
 4
     □ {
 5
           int num, dig, i, dec;
 6
           dec = 0;
 7
           i = 1;
 8
           printf("Enter a number: ");
 9
           scanf("%d", &num);
10
           while (num > 0)
11
12
                dig = num \% 10;
13
                dec = dec + i*dig;
14
                num = num / 10;
                i = i * 2;
15
16
17
           printf("Decimal is %d\n", dec);
18
           return 0;
19
20
```