CSE 281

CT – 2

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

```c
#include<stdio.h>

int main()
{
    int num ,dig, i;
    int f[10]= {};
    printf("Enter a number: ");
    scanf("%d", &num);
    while (num > 0)
    {
        dig = num % 10;
        f[dig]++;
        num = num/10;
    }
    printf("Frequencies:\n");
    for (i = 0; i < 10; i++)
    {
        printf("%d - %d\n",i, f[i]);
    }
    return 0;
}
```

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

```c
#include<stdio.h>

int main()
{
    int num, dig, i, dec;
    dec = 0;
    i = 1;
    printf("Enter a number: ");
    scanf("%d", &num);
    while (num > 0)
    {
        dig = num % 10;
        dec = dec + i*dig;
        num = num / 10;
        i = i * 2;
    }
    printf("Decimal is %d\n", dec);
    return 0;
}
```