

## //Some extra tasks

**Task:** Write a Program that reads a binary number as input and produces the decimal and octal number as output.

### Code:

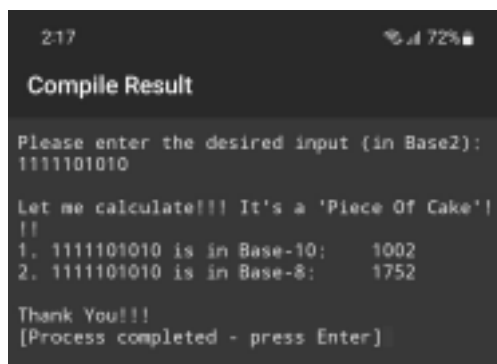
```
#include<stdio.h>
//Shariful Islam Emon 213902056
int main()
{
    int n,bin,dec=0,oct=0,base=1,rem,i=1;
    printf("Please enter the desired input (in Base2): ");
    scanf("%d",&n);
    printf("\nLet me calculate!!! It's a 'Piece Of Cake'!!!\n");
    bin=n;
    while(n>0)
    {
        rem=n%10;
        dec+=rem*base;
        n=n/10;
        base=base*2;
    }
    printf("1. %d is in Base-10: %d\n",bin,dec);
    while(dec!=0)
    {
        oct+=(dec%8)*i;
        dec/=8;
        i*=10;
    }
    printf("2. %d is in Base-8: %d\n",bin,oct);

    printf("\nThank You!!!");
    return 0;
}
```

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## Output:



A screenshot of a mobile terminal window. The status bar at the top shows the time 2:17, a signal strength icon, and a battery level of 72%. The terminal has a dark background with white text. The text displayed is as follows:

```
Compile Result

Please enter the desired input (in Base2):
1111101010

Let me calculate!!! It's a 'Piece Of Cake'!
!!
1. 1111101010 is in Base-10:    1002
2. 1111101010 is in Base-8:    1752

Thank You!!!
[Process completed - press Enter]
```

