



Practical 7 Framing protocol: Bit Count
perform Bit-Count operation on given bit-streams

```
#include <stdio.h>
```

```
int countSetBits(int n)
```

```
{
```

```
    int count = 0;
```

```
    while (n > 0)
```

```
    {
```

```
        if (n % 2 == 1)
```

```
        {
```

```
            count++;
```

```
        }
```

```
        n = n / 2;
```

```
    }
```

```
    return count;
```

```
}
```

```
int main()
```

```
{
```

```
    int num;
```

```
    printf("Enter an integer: ");
```

```
    scanf("%d", &num);
```

```
    int result = countSetBits(num);
```

```
    printf("Number of set bits in %d: %d\n",  
           num, result);
```

```
    return 0;
```

```
}
```




* Learning Outcome

-> This program gives Number of set bits in given number.

* Output

Enter an integer : 100

Number of set bits in 100 : 3

Enter an integer : 4512

Number of set bits in 4512 : 4