```c
//Armstrong number: Program -1
#include<stdio.h>

void main(){

    int num=0,n=0;
    printf("Enter the value: ");
    scanf("%d",&num);
    n=num;
    int rem=0,sum=0;
    while(num>0){
     rem=num%10;
     sum+=rem*rem*rem;
     num/=10;
    }

    if (n==sum)
     printf("Number is an Amstrong...");
    else
     printf("Not an Amstrong number....");
}
```

```c
//program -2
#include<stdio.h>

void func(int n);

int main(){
    int n;
    scanf("%d",&n);
    func(n);
    return 0;
}

void func(int n){
    int count=0;
    if (n==1){
        count++;
        count++;
```

```c
        }

    else{
        count++;
        for(int i=1;i<=n;i++){
            count++;
            for(int j=1;j<=n;j++){
                count++;
                count++;
                count++;
                count++;
                break;
            }
        }
         count++;
    }
    printf("%d",count);
}
```

```c
//program -3
#include<stdio.h>

int factor(int n);

int count=0;

int main(){
    int n;
    scanf("%d",&n);
    factor(n);
    printf("%d",count);
    return 0;
}

int factor(int n){
    int i;
    count++;
    for(int i=1;i<=n;++i)
    {
```

```c
        count++;
        if(n%i==0){
            //print
        }count++;
    }
    count++;
    return 0;
}
```

```c
//Program -4
#include<stdio.h>

void function(int n){
    int count=0;
    int c=0;
    count++;
    for(int i=n/2;i<n;i++){
        count++;
        for(int j=1;j<n;j=2*j){
            count++;
            for(int k=1;k<n;k=k*2){
                count++;
                c++;
                count++;
            }count++;
        }count++;
    }count++;
    printf("%d",count);
}

void main(){
    int val;
    printf("Enter the value: ");
    scanf("%d",&val);
    function(val);
}
```

```
PS C:\c_prg\daa_prg\day_1> gcc opc4.c
PS C:\c_prg\daa_prg\day_1> ./a.exe
Enter the value: 4
30
PS C:\c_prg\daa_prg\day_1> ./a.exe
Enter the value: 10
212
PS C:\c_prg\daa_prg\day_1>
```

```c
//Program -5
#include<stdio.h>

void reverse(int n){
    int rev=0,remainder;
    int count=0;
    count++;

    while(n!=0){
        count++;
        remainder=n%10;
        count++;
        rev+=remainder;
        count++;
        n/=10;
        count++;
    }count++;
    count++;
    printf("%d",count);
}

void main(){
    int val;
    printf("Enter the value: ");
    scanf("%d",&val);
    reverse(val);
}
```

```
PS C:\c_prg\daa_prg\day_1> gcc opc5.c
PS C:\c_prg\daa_prg\day_1> ./a.exe
Enter the value: 12
11
PS C:\c_prg\daa_prg\day_1> ./a.exe
Enter the value: 1234
19
PS C:\c_prg\daa_prg\day_1>
```