

# lab 3

date:24/09/2025

```
// 28. PROGRAM TO CHECK WHETHER A NO IS ARMSTRONG OR NOT.
```

```
/*An Armstrong number is a positive integer that is equal to  
the sum of its own digits, each raised to the power of the  
number of digits in the number*/
```

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

```
#include <math.h>
```

```
int main()
```

```
{
```

```
    int n1, n2, rem, n = 0;
```

```
    float result = 0;
```

```
    printf("Enter a number= ");
```

```
    scanf("%d", &n1);
```

```
    n2 = n1;
```

```
    //To count the number of digits
```

```
    while (n2 != 0)
```

```
    {
```

```
        n2 /= 10;
```

```
        n++;
```

```
    }
```

```
    n2 = n1;
```

```
    while (n2 != 0)
```



