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)

```
{
  rem = n2 % 10;
  result += pow(rem, n);
  n2 /= 10;
}

if ((int)result == n1)
  printf("%d is an Armstrong number.\n", n1);
else
  printf("%d is not an Armstrong number.\n", n1);
return 0;
}
```

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1 / 7.8. (Appendix A to D. S. Alexandrous Of Not.)

1 / 7.8. (Appendix A to D. S. Alexandrous Of Not.)

2 / 7.8. (Appendix A to D. S. Alexandrous Of Not.)

2 / 7.8. (Appendix A to D. S. Alexandrous Of Not.)

3 / 7.8. (Appendix A to D. S. Alexandrous Of Not.)

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