```c
//WAP to check whether a 3 digit number is armstrong or not
#include<stdio.h>                //include standard input and output header file using
preprocessor directive
int main()
{
    int num,arm=0,rem,temp;  //declare integer variables num, rem, temp and arm=0
    printf("Enter number to check whether it is armstrong or not\n");
    scanf("%d",&num);              //input the number
    temp=num;                      //store number into temporary variable
    while(num)                     //execute the loop until num remains non zero
    {
        rem=num%10;        //to get the last digit of num, divide num with 10 using '%'
        arm=arm+(rem*rem*rem);//put the rem into this formula and perform
calculation
        num=num/10;      //for removing the last digit from number divide num with '/'
    }
    if(temp==arm)          //finally if arm value after exiting the loop equals to temp
value then it is armstrong
    printf("%d is Armstrong Number",temp);
    else                   //if arm value not equals temp means not an armstrong number
    printf("%d is not an Armstrong Number",temp);
}
```