Task 6

#include <stdio.h>

#include <math.h>

int main()

{

int i,num,remainder,n=0,numcopy,new\_num=0;

printf("Enter the number which has to be checked: ");

scanf("%d", &num);

numcopy=num;

while(numcopy!=0)

{

numcopy=numcopy/10;

++n;

}

for(i=num;i!=0;i=i/10)

{

remainder=i%10;

new\_num+=pow(remainder,n);

}

if(new\_num==num)

printf("\nThe number %d is armstrong\n", new\_num);

else

printf("\nThe input number is not armstrong\n");

return 0;

}