PRATICAL NO: 1C;

Aim:

Code:

#include<iostream>

#include<conio.h>

using namespace std;

class demo

{

int n,nn;

void readno()

{

cout<<"\n enter the no.:";

cin>>n;

}

public:

int fact()

{

readno();

int f=1;

while(n>0)

{

f=f\*n;

n--;

}

return f;

}

int reverseno(){

readno();

int d,num=0;

nn=n;

while(n>0){

d=n%10;

num=num\*10+d;

n=n/10;

}

return num;

}

int ispalindrome(){

int revnum=reverseno();

if(nn==revnum)

return 1;

else;

return 0;

}

int isarmstrong(){

readno();

int nn=n,sum=0,d;

while(n>0)

{

d=n%10;

sum=sum+(d\*d\*d);

n=-n/10;

}

if(nn=sum)

return 1;

else

return 0;

}

};

int main()

{

int res;

demo d;

cout<<"factorial of input number:";

res=d.fact();

cout<<endl<<"fact="<<res;

cout<<"\n reverse input number: ";

res=d.reverseno();

cout<<"\n reverse number="<<res;

cout<<endl<<"\n to check input number";

if(d.ispalindrome())

cout<<"number is palidrome";

else

cout<<"number is not palindrome";

cout<<endl<<"to check input number is armstrong";

if(d.isarmstrong())

cout<<"number is armstrong";

else

cout<<"number is not armstrong";

getch();

}

Output:

factorial of input number:

enter the no.:1

fact=1

reverse input number:

enter the no.:789

reverse number=987

to check input number

enter the no.:66

number is palidrome

to check input number is armstrong

enter the no.:153

number is armstrong