//to print the next prime no.

#include<iostream.h>

#include<conio.h>

void main()

{

clrscr();

int n,i,j,flag=0;

cout<<" enter a no.";

cin>>n;

for(i=n+1;i<=100;i++)

{

for(j=2;j<i;j++)

{

if(i%j==0)

{

flag=1;

break;

}

}

if (flag==0)

{

cout<<" the next prime no. is "<<i;

break;

}

flag=0;

}

getch();

}

//to check the no. is even or odd using conditional operator

#include<iostream.h>

#include<conio.h>

void main()

{

clrscr();

int a;

cout <<"enter the value of a";

cin>>a;

if (a%2==0)

{

cout<<"the no. is even";

}

else

{

cout<<" the no. is odd";

}

getch();

}

//fabonicci series

#include<iostream.h>

#include<conio.h>

void main()

{

clrscr();

int r , first=0, second=1,f=0;

cout<<"enter the rangeof fabonicci series";

cin>>r;

for (int c=0;c<r;c++)

{

if(c<=1)

f=c;

else

{f=first+second;

first=second;

second=f;

}

cout<<f<<" ";

}

getch();

}

//factorial of a no. using do while statement

#include<iostream.h>

#include<conio.h>

void main()

{

long int i,n,f=1;

clrscr();

cout<<"enter the value for which the factorial to be find";

cin>>n;

i=1;

do

{

f\*=i;

i++;

}

while(i<=n);

cout<<"factorials of the no."<<f;

getch();

}

//to find weather the no. is palindrome or not

#include<iostream.h>

#include<conio.h>

void main()

{

clrscr();

int n,r=0,temp;

cout<<"enter the no. to check";

cin>>n;

temp=n;

while(temp!=0)

{

r=r\*10;

r=r+temp%10;

temp=temp/10;

}

if(n==r)

{

cout<<"palindrome no.";

}

else

cout<<"not palindrome" ;

getch();

}

}

// to check the no. is prime or not

#include<iostream .h>

#include<conio.h>

void main()

{

int a;

clrscr();

cout<<"enter the value of a";

cin>>a;

if (a%2!=0)

{

cout<<"the value is prime";

}

else if(a==2)

cout<<" the no. is prime";

else

{

cout<<"the no. is not prime";

}

getch();

}