1.A program to check whether the given number is prime or not:

#include<stdio.h>

void main()

{

int n,i,c=0;

scanf("%d",&n);

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

{

if(n%i==0)

c++;

}

if(c==2)

printf("Prime number");

else

printf("Not");

}

2.Range of a given prime number:

#include<stdio.h>

void main()

{

int n,i,c,range;

scanf("%d",&range);

for(n=2;n<=range;n++)

{

c=0;

for(i=2;i<=n/2;i++)

{

if(n%i==0)

c++;

}

if(c==0)

printf("%d",n);

}

}

3.Sum of prime numbers:

#include<stdio.h>

void main()

{

int n,i,c,range,s=0;

scanf("%d",&range);

for(n=501;n<=range;n++)

{

c=0;

for(i=2;i<=n/2;i++)

{

if(n%i==0)

c++;

}

if(c==0)

{

s=s+n;

printf("%d",n);

}

}

printf("\n%d",s);

}

4.Printing Nth prime number:

#include<stdio.h>

void main()

{

int n,i,c,range,s=0,count=0,k;

scanf("%d",&k);

for(n=2;count<k;n++)

{

c=0;

for(i=2;i<=n/2;i++)

{

if(n%i==0)

c++;

}

if(c==0)

{

count++;

}

}

printf("%d=%d\t",count,n-1);

}

5.Print fibanocci series:

#include<stdio.h>

void main()

{

int n,f1=0,f2=1,f3,i;

scanf("%d",&n);

if(n==1)

printf("%d",f1);

else

{

printf("%d %d",f1,f2);

for(i=3;i<=n;i++)

{

f3=f1+f2;

printf("%d",f3);

f1=f2;

f2=f3;

}

}

}

6.Nth fibanocci number and number of digits in Nth fibanocci number:

#include<stdio.h>

void main()

{

int n,f1=0,f2=1,f3,i,c;

scanf("%d",&n);

if(n==1)

c=printf("%d",f1);

else

{

for(i=3;i<=n;i++)

{

f3=f1+f2;

f1=f2;

f2=f3;

}

c=printf("%d",f2);

}

printf("\n%d",c);

}

Programs:

1)#include<stdio.h>

void main()

{

int i,j;

for(i=1;i<=5;i++)

{

for(j=1;j<=i;j++)

{

printf("%d",j%2);

}

printf("\n");

}

}

2)#include<stdio.h>

void main()

{

int i,j,k=1;

for(i=1;i<=5;i++)

{

for(j=1;j<=i;j++)

{

printf("%d ",k++);

}

printf("\n");

}

}

3)#include<stdio.h>

void main()

{

int i,j,k=1;

for(i=1;i<=5;i++)

{

for(j=1;j<=5;j++)

{

if(i==1||i==5||j==1||j==5)

printf("\* ");

else

printf(" ");

}

printf("\n");

}

}

4)#include<stdio.h>

void main()

{

int i,j;

for(i=1;i<=5;i++)

{

for(j=1;j<=i;j++)

{

printf("%d",i);

if(j<1)

printf("\*");

}

printf("\n");

}

}