Write a program for fibonacci series

1 1 2 3 5 8 13

Write a program for prime numbers

2 3 5 7 11 13

fibonacci series

f1=1 , f2=1

n=10

printf(“%d %d”,f1,f2);

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

f3=f1+f2;

printf(“%d “,f3); //f3=2

f1=f2; //f1=1

f2=f3; //f2=2

}

Write a program to generate the prime numbers

2 3 5 7 11 13

Mixed Series - 1,2,1,3,2,5,3,7,5,11,8,13,13,17

void main(){

int i,number=2, flag,f1=1,f2=0,f3,temp= 0,k,n=14;

for(k=1;k<=n;k++){

if(temp==0){

f3=f1+f2;

printf(“%d”,f3);

f1=f2;

f2=f3;

temp=1;

}

else{

flag=0;

l1:for(i=2;i<=number/2;i++)

{

if(number%i==0)

{

flag=1;

break;

}

}

if(flag==0 && number!=1)

printf(“%d ”,number++);

else{

number++;

flag=0;

goto l1;

}

temp=0;

}

}

getch();

}

Mixed series - 0 1 2 2 4 3 6 4 8 5 10

void main(){

int i,n=11,flag=0,j=1;

for(i=0;i<n;i++){

if(flag==0){

if(i%2==0)

printf(“%d “,i);

flag=1;

}

else{

printf(“%d “,j++);

flag=0;

}

}

getch();

}

Mixed Series - 1 1 3 2 5 3 7 4 9 5 11

void main(){

int n=11,i,num=1,odd=1,flag=0;

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

if(flag==0){

printf(“%d “,odd);

odd+=2;

flag=1;

}

else{

printf(“%d “,num++);

flag=0;

}

}

getch();

}