**1)**

#include<stdio.h>

int main()

{

int n,i,c=0,b=1,s;

printf("enter a number \n");

scanf("%d",&n);

if(n==0)

printf("the 0th term is %d",0);

else if (n==1)

printf("the 1st term is %d",1);

else

{

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

{

s=c+b;

c=b;

b=s;

}

}

printf("The %dth term of fibonacci series is %d",n,s);

return 0;

}

**2)**

#include<stdio.h>

int main()

{

int i,s,b=1,c=0,n;

printf("enter the number \n");

scanf("%d",&n);

printf("fabonacci series is upto %d is \n %d %d ",n,0,1);

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

{

s=c+b;

printf("%d ",s);

c=b;

b=s;

}

return 0;

}

**3)**

#include<stdio.h>

int main()

{

int n,c=0,b=1,s;

printf("enter the number \n");

scanf("%d",&n);

do

{

s=c+b;

if(s==n||n==0)

{

printf("the number is present in the fibonacci series");

break;

}

else

{

c=b;

b=s;

}

}while(s<=n);

if(s!=n&&n!=0)

printf("the number is not present in fibonacci series\n");

return 0;

}

**4)**

#include<stdio.h>

int main()

{

int a,b,i;

printf("enter two numbers\n");

scanf("%d %d",&a,&b);

if(a>b)

i=b;

else

i=a;

for(i;i>=1;i--)

{

if(b%i==0&&a%i==0)

{

printf("HCF IS %d",i);

break;

}

}

return 0;

}

**5)**

#include<stdio.h>

int main()

{

int i,a,b,n;

printf("enter two number \n");

scanf("%d%d",&a,&b);

if(a>b)

i=b;

else

i=a;

for(i;i>1;i--)

{

if(a%i==0&&b%i==0)

{

printf("the numbers are not co prime");

break;

}

}

if(i==1)

{

printf("the numbers are co prime ");

}

return 0;

}

**6)**

#include<stdio.h>

int main()

{

int n,i,a;

printf(" 1 2 3 5 7 ");

for(i=8;i<=100;i++)

{

if(i%2!=0&&i%3!=0&&i%5!=0&&i%7!=0)

{

printf("%d ",i);

}

}

return 0;

}

**7)**

#include<stdio.h>

int main()

{

int a,b,i,n,flag=0;

printf("enter two number \n");

scanf("%d%d",&a,&b);

for(n=a;n<=b;n++)

{

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

{

if(n%i==0)

{

flag=1;

}

}

if(flag==0)

{

printf("%d ",n);

}

flag=0;

}

return 0;

}

**8)**

#include<stdio.h>

int main()

{

int a,n,i,flag=0;

printf("enter any number\n");

scanf("%d",&a);

for(n=a+1;1;n++)

{

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

{

if(n%i==0)

{

flag=1;

}

}

if(flag==0)

{

printf("%d",n);

break;

}

flag=0;

}

return 0;

}

**9)**

#include<stdio.h>

int main()

{

int n,a,b,c,i=1,j,l,sum=0,p=1;

printf("enter any number\n");

scanf("%d",&n);

b=n;

while(n>10)

{

n=n/10;

i++;

}

c=i;

n=b;

for(j=0;j<c;j++)

{

a=b%10;

for(l=0;l<c;l++)

{

p=p\*a;

}

sum=sum+p;

b=b/10;

p=1;

}

if(sum==n)

printf("given number is an amstrong number\n");

else

printf("given number is not a amstrong number\n");

return 0;

}

**10)**

#include<stdio.h>

int main()

{

int n,i=1,a,b,j,l,c,p=1,sum=0;

for(n=1;n<1000;n++)

{

a=n;

while(a>=10)

{

a=a/10;

i++;

}

c=i;

a=n;

for(j=0;j<c;j++)

{

b=a%10;

for(l=0;l<c;l++)

{

p=p\*b;

}

sum=sum+p;

a=a/10;

p=1;

}

if(n==sum)

{

printf("%d ",sum);

}

sum=0;

i=1;

}

return 0;

}