1)

#include <stdio.h>

int main()

{

int curr,prev,next,n,i;

prev=0;

curr=1;

printf("Enter the value of n");

scanf("%d",&n);

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

{

next=prev+curr;

prev=curr;

curr=next;

}

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

return 0;

}

2)

#include <stdio.h>

int main()

{

int curr,prev,next,n,i;

prev=0;

curr=1;

printf("Enter the value of n");

scanf("%d",&n);

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

{

next=prev+curr;

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

prev=curr;

curr=next;

}

return 0;

}

3)

#include <stdio.h>

int main()

{

int curr,prev,next,n,i;

prev=0;

curr=1;

printf("Enter the value of n");

scanf("%d",&n);

for(i=0;1;i++)

{

next=prev+curr;

prev=curr;

curr=next;

if(next==n)

{

printf("Number found");

break;

}

if(next>n)

{

printf("Number not found");

break;

}

}

return 0;

}

4)

#include <stdio.h>

int main()

{

int a,b,i,n,HCF;

printf("Enter the numbers");

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

int min=a<b?a:b;

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

{

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

HCF=i;

}

printf("The HCF is:%d\n",HCF);

return 0;

}

5)

#include <stdio.h>

int main()

{

int a,b,i,HCF;

printf("Enter the numbers");

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

int min=a<b?a:b;

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

{

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

HCF=i;

}

if(HCF==1)

printf("The numbers are co -prime");

else

printf("The numbers are not co-prime");

return 0;

}

6)

#include <stdio.h>

int main()

{

int i,n,c=0;

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

{

c=0;

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

{

if(n%i==0)

c=1;

}

if(c==0)

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

}

return 0;

}

7)

#include <stdio.h>

int main()

{

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

printf("Enter the two numbers");

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

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

{

c=0;

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

{

if(n%i==0)

c=1;

}

if(c==0)

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

}

return 0;

}

8)

int main()

{

int i,n,a,c=0;

printf("Enter the number");

scanf("%d",&n);

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

{

c=0;

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

{

if(a%i==0)

{

c=1;

break;

}

}

if(c==0)

{ printf("%d\n",a);

break;

}

}

return 0;

}

9)

#include<stdio.h>

#include<math.h>

int main()

{

int n,rem,b,result=0,count=0,temp1,temp2;

printf("Enter the number:");

scanf("%d",&n);

temp1=n;

temp2=n;

while(n)

{

n=n/10;

count++;

}

while(temp1)

{

rem=temp1%10;

b=pow(rem,count);

result=result+b;

temp1=temp1/10;

}

if(result==temp2)

printf("The number is a Amstrong number");

else

printf("The number is not a Amstrong number");

return 0;

}

10)

#include<stdio.h>

#include<math.h>

int main()

{

int rem,b,result,i,temp1,temp2,count;

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

{

result=0;

count=0;

temp1=i;

temp2=i;

while(temp2)

{

temp2=temp2/10;

count++;

}

while(temp1)

{

rem=temp1%10;

b=pow(rem,count);

result=result+b;

temp1=temp1/10;

}

if(result==i)

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

}

return 0;

}