```
//1. Write a program to find the Nth term of the Fibonnaci series.
#include<stdio.h>
int main ()
{
    int a=-1,b=1,c,i,n;
    printf("Enter a number\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        c=a+b;
        a=b;
        b=c;
    }
    printf("the Nth term of the Fibonnaci series is %d",c);
    return 0;
}</pre>
```

```
//2. Write a program to print first N terms of Fibonacci series
#include<stdio.h>
int main ()
{
    int a=-1,b=1,c,i,n;
    printf("Enter a number \n");
    scanf("%d",&n);

    for(i=0;i<=n;i++)
    {
        c=a+b;
        a=b;
        b=c;
        printf(" %d\n",c);
    }
    printf("\n");
}</pre>
```

```
/*3. Write a program to check whether a given number is there in the
Fibonacci
series or not.*/
#include<stdio.h>
int main ()
{
    int a=-1,b=1,c,n;
    printf("Enter a number");
    scanf("%d",&n);
    if(n==a || n==b)
    {
        printf("fibonacci series ");
    }
    else
      {
            c=a+b;
    }
}
```

```
while (c<n)
{
    a=b;
    b=c;
    c=a+b;
}
if(c==n)
{
    printf("fibonacci series ");
}
else
{
    printf("not fibonacci series ");
}
return 0;
}</pre>
```

```
//4. Write a program to calculate HCF of two numbers
#include<stdio.h>
int main ()
{
    int a,b,H;
    printf("Enter the two number is ");
    scanf("%d%d",&a,&b);
    for(H=a>b?a:b;H>=1;H--)

        if(a%H==0 && b%H==0)
        break;
        printf("the HCF of two number is %d",H);
        return 0;
}
```

```
//5. Write a program to check whether two given numbers are co-prime
numbers or not

#include<stdio.h>
int main ()
{
   int a,b,i,min;
   printf("Enter a two number ");
   scanf("%d%d",&a,&b);
   min=a>b?a:b;
   for(i=2;i<=min;i++)
   if(a%i==0 && b%i==0)
   break;
   if(i==min+1)
{
      printf("%d and %d number is co-prime",a,b);
   }
}</pre>
```

```
}
else
{
```

```
printf("%d and %d number is not co-prime",a,b);
return 0;
#include<stdio.h>
int main ()
    int i, x=2, N=100;
   while (N)
        for(i=2;i<x;i++)</pre>
            if(x\%i==0)
            break;
            if(i==x)
                printf("%d\n",x);
            N --;
         X++;
    return 0;
#include<stdio.h>
int main (){
    int l,u,x,i;
    printf("Enter a lower and upper number\n");
    scanf("%d%d",&1,&u);
    for(x=1-1;x<=u-1;x++)
        for(i=2;i<x;i++)</pre>
            if(x\%i==0)
            break;
        if(i==x)
        printf("%d\n",x);
    printf("\n");
    return 0;
```

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#include<stdio.h>
int main ()
```

```
{
    int n,r,s,x;
    printf("armstrong number\n");

    for(n=1;n<=1000;n++)
    {
        s=0;
        x=n;
        while(x!=0)
        {
            r=x%10;
            s=s+r*r*r;
            x=x/10;
        }
        if(s==n)
        printf("%d\n",n);
    }

return 0;
}</pre>
```

```
/*9. Write a program to check whether a given number is an Armstrong
number
or not*/
#include<stdio.h>
int main ()
{
    int n,x,r,s,i;
    printf("Enter a number");
    scanf("%d",&n);
    //for(i=1;i<=n;i++)

        s=0;
        x=n;
        while (x!=0)
        {
            r=x%10;
            s=s+r*r*r;
            x=x/10;
        }
        if(s==n)
        {
                printf("the given number is armstrong number %d",s);
        }
        else
            printf("not armstrong number");</pre>
```

```
return 0;
}
```