NAME SUMIT GUPTA ASSIGNMENT 7

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//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>
```

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/*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("fibonacci series ");
        }
        else
        {
            printf("not fibonacci series ");
        }
    }
}</pre>
```

}

```
gram to calculate HCF of two number
#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)
        printf("the HCF of two number is %d",H);
     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);
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;
    / printf("Enter a number\n");
// scanf("%d",&N);
    while (N)
        for(i=2;i<x;i++)
             if(x%i==0)
             break;
             if(i==x)
                 printf("%d\n",x);
    return 0;
```

```
#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
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>
```