

```
include (stdlo.h)
   int fact(int n)
 3
4
5
6
7
8
9
        if(n=0) return 1;
        return n*fact(n-1);
    ()niem biov
10
        int n;
11
        printf("enter the value of n\n");
        scanf("%d",&n);
12
        printf("factorial of %d=%d",n,fact(n-1));
13
14
```

```
enter the value of n

5
factorial of 5=24
...Program finished with exit code 17
Press ENTER to exit console.
```

```
(2) N-c-program to print 'n' fibonacci seriey

1- It include < stdio.h>.

int feb (ent n)

(if (n==0) return 0;

if (n==1) return 1;

return fib (n-1) + fib (n-2);

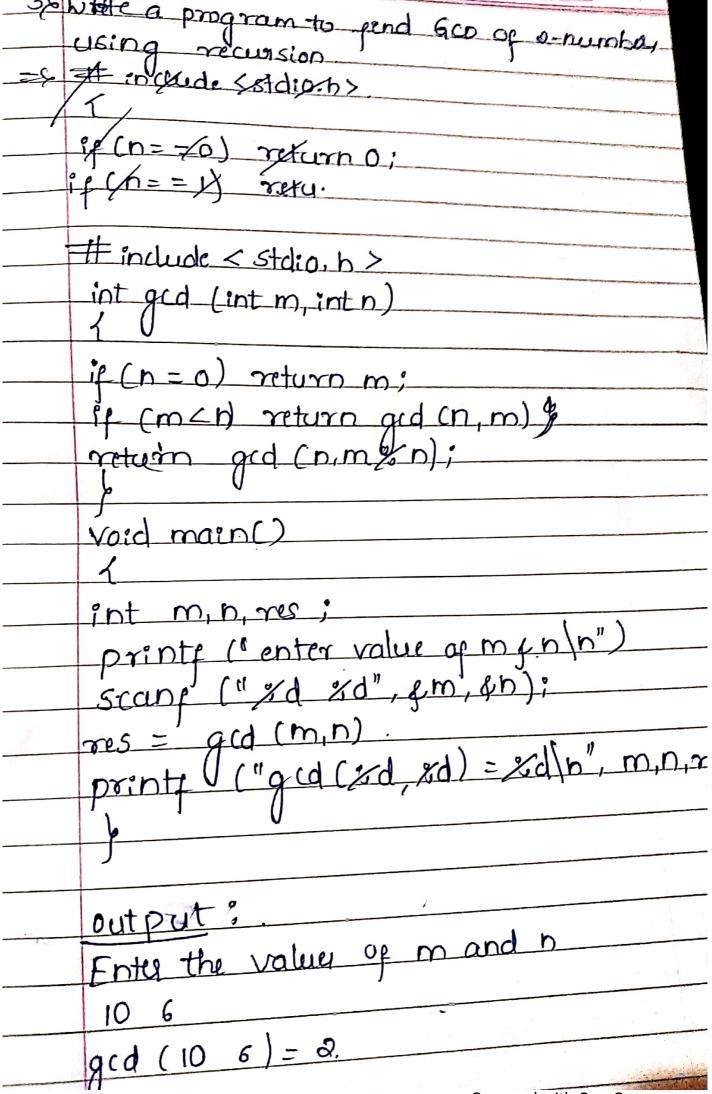
Void main()

{
```

```
prints (" ente value of n/n") sure
ecany (" xd', fn):
prints ("xd sid humbers are \n"n):
  lint ini
   print (" fib ( %d) = %d \n", is, fib(i))
   Output & da porter
  enter the value of n
  8 feb numbers are
  -flb(0) = 0
 feb (1) = 1
 fib(2)=1
f(h(3) = 2
feb(4) = 4
feb(5) = 7
fib(6)=111
fib(7)=16.
```

```
#include(stdio.h>
int fib(int n)
3
     <mark>if</mark>(n==0) <mark>reium</mark> 0 8
      <mark>if(n==1) return</mark> 18
      return fib(n-1)+(n-2);
 void unin()
      int mais
           printf("enter the value of n\n");
            scanf("%d",&n);
            printf("%d fib numbers are\n",n);
            for(i=0;i<n;i++)
.5 -
16
17
                 printf("fib(%d)=%d\n",i,fib(i));
18
```

```
a fib numbers are
£1b(0)=0
fib (1) =1
£1b(2)=1
£1b(3)=2
fib (4) =4
fib(5)=7
fib(6)=11
fib(7)=16
```



```
LUGOSATGLOID
       int ged(int m, int n)
!f(n==0) return m;
!f(m<n) return (n,m);
return ged(n,(m % n));</pre>
       ()ntem btev
       ant monorces
      printf("enter values of m and n\n");
scanf("%d %d",&m,&n);
res_ged(m,n);
       printf("gcd(%d %d)=%d\n",m,n,res);
```

```
enter values of m and n
10 6
gcd(10 6)=2
```

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4 Town of Hansi		
Void tower (ent n, Char Source, Chartemp		
	Chardest)	
	1 Ourober	10-11-9
	if (n = =1) 14.5	11 = 112 9:
	1/	
	prints ("more des 1 cetron : sociace; dest	20 to 36 n
	Incident dest	the bothi
	30000, 010	377
ű.	return ; E	( , , , , ,
N	b imaritie	and the second s
towns(n-1, sourcesidest, temp);		
printe (" mone dese propos y disprom.		
	source to dest	(b", p);
	towers (n-1, temp, dest	
	<b>b</b>	
	J (1)	1.5
		ria min
K"a/a/mp sular mins ") piatra		
ent nei(ab, arg. "bre bre") game		
printe ('enter no. qu'disks)n");		
Core a lean ner Mile & d"bar note ) he will be		
Towers (n, '5', T' D');		
	100005 (r), 5, 1, 1) J,	
		. Tootio
	d ban as so su	for the net
	and the second s	CONTRACTOR OF THE STATE OF THE

Move disk 1 from peg C to peg A Move disk 2 from peg C to peg B Move disk 1 from peg A to peg B Move disk 3 from peg C to peg A Move disk 1 from peg B to peg C Move disk 2 from peg B to peg A Move disk 1 from peg C to peg A Move disk 5 from peg B to peg C Move disk 1 from peg A to peg B Move disk 2 from peg A to peg C Move disk 1 from peg B to peg C Move disk 3 from peg A to peg B Move disk 1 from peg C to peg A Move disk 2 from peg C to peg B Move disk 1 from peg A to peg B Move disk 4 from peg A to peg C Move disk 1 from peg B to peg C Move disk 2 from peg B to peg A Move disk 1 from peg C to peg A Move disk 3 from peg B to peg C Move disk 1 from peg A to peg B Move disk 2 from peg A to peg C Move disk 1 from peg B to peg C

Press ENTER to exit console.