

```
/**gcd using recursion*/
```

```
#include<stdio.h>
```

```
int gcd(int,int);
```

```
int main()
```

```
{
```

```
    int n1,n2,result;
```

```
    printf("enter two no");
```

```
    scanf("%d%d",&n1,&n2");
```

```
    result=gcd(n1,n2);
```

```
    printf("gcd of %d and %d=%d",n1,n2,result);
```

```
}
```

```
int gcd(int a,int b)
```

```
{
```

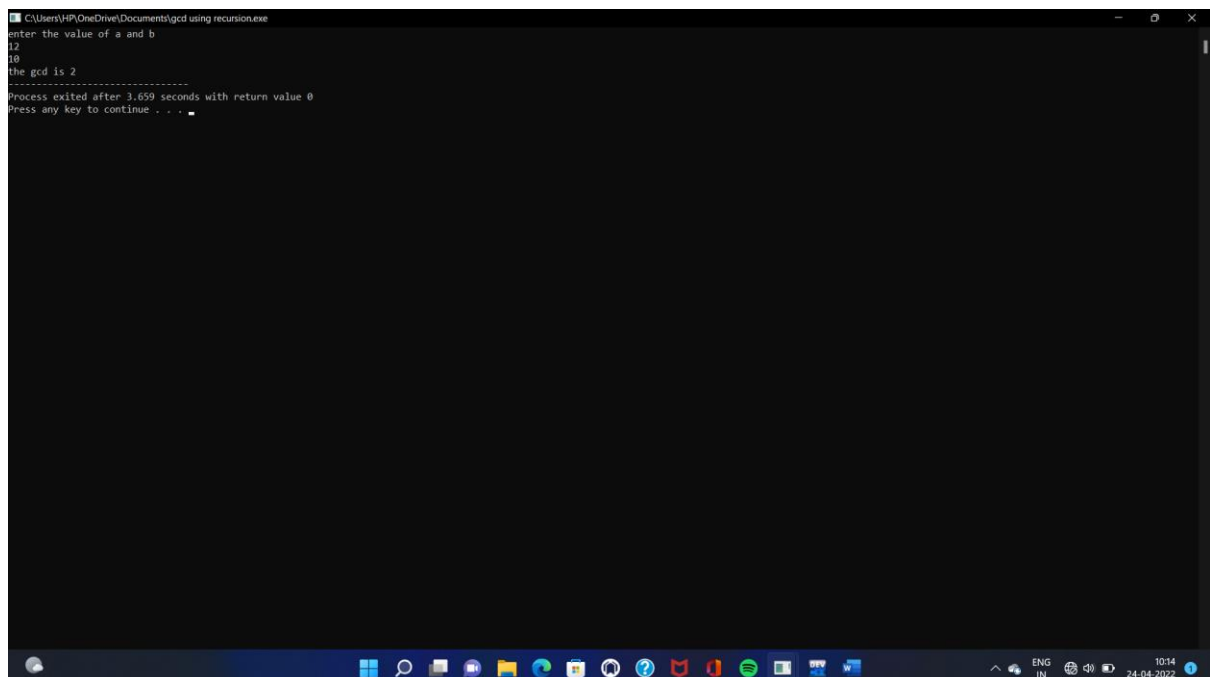
```
    if(b!=0)
```

```
        return gcd(b,a%b);
```

```
    else
```

```
        return a;
```

```
}
```



The screenshot shows a Windows command prompt window titled "C:\Users\HP\OneDrive\Documents\gcd using recursion.exe". The program prompts the user to "enter the value of a and b". The user enters "12" and "10" on separate lines. The program outputs "the gcd is 2". Below this, it shows "Process exited after 3.659 seconds with return value 0" and "Press any key to continue . . .". The Windows taskbar is visible at the bottom with various application icons and a system clock showing 10:14 on 24-04-2022.

```
C:\Users\HP\OneDrive\Documents\gcd using recursion.exe
enter the value of a and b
12
10
the gcd is 2
Process exited after 3.659 seconds with return value 0
Press any key to continue . . .
```