

```

program trapecio
integer::n,j
real::a,b,h,l,s
real,dimension(10000)::x

print*, 'ingrese el extremo izquierdo
a='
read(*,*)a
print*, 'ingrese el extremo derecho
b='
read(*,*)b
print*, 'ingrese el numero de
particiones n='
read(*,*)n

h=(a-b)/n
s=0
do j=1,n-1
x(j)=a+j*h
s=s+f(x(j))
end do
l=(f(a)+2*s+f(b))*h/2
print*, 'El valor de la intgral es l=',l

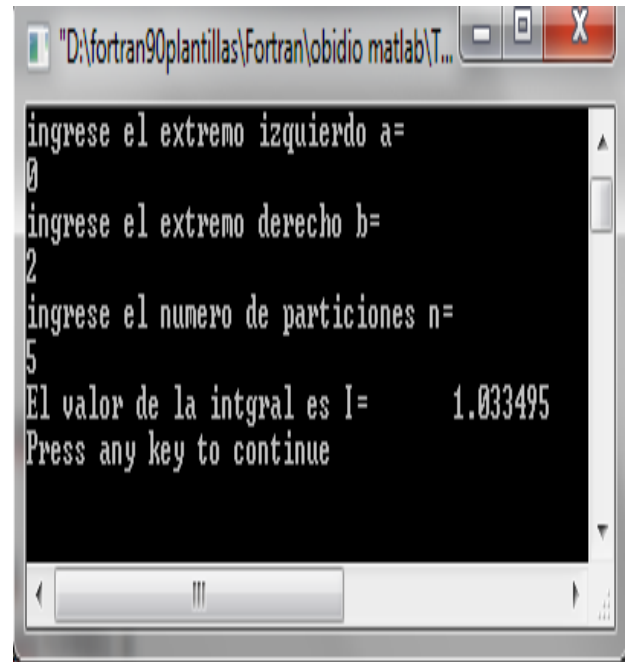
end program trapecio

```

```

real function f(x)
real::x
f=sin(x)
return
end function

```



The screenshot shows a window titled "D:\fortran90plantillas\Fortran\obidio matlab\T...". The window contains a black terminal area with white text. The text shows the program's prompts and user input: "ingrese el extremo izquierdo a=" followed by "0", "ingrese el extremo derecho b=" followed by "2", and "ingrese el numero de particiones n=" followed by "5". Below these inputs, the program outputs "El valor de la intgral es l= 1.033495" and "Press any key to continue". The window has standard Windows-style controls (minimize, maximize, close) in the top right corner.

```

"D:\fortran90plantillas\Fortran\obidio matlab\T...
ingrese el extremo izquierdo a=
0
ingrese el extremo derecho b=
2
ingrese el numero de particiones n=
5
El valor de la intgral es l= 1.033495
Press any key to continue

```