```c
\\33 Array insertion
\* C Program to to insert an element at given position in an array *\

# include < stdio.h >
int  main( )
{
int  a[20], i, n, ele, pos ;
printf(" Enter the Numbers of elements: ") ;
scanf("%d ",& n) ;
printf("\n Enter the elements of array : \n") ;
for (  i = 1 ; i < = n ; i++)
scanf("%d ",& a[i]) ;
printf("\n Array enter by user are :\n") ;
for (  i = 1 ; i < = n ; i++)
printf("%d \t",a[i]) ;

printf("\n Enter the position you want to enter :") ;
scanf("%d ",& pos) ;
printf("\n Enter the element you want to enter :") ;
scanf("%d ",& ele) ;

for (  i = 1 ; i < = n ; i++)
{
if ( i > pos )
a[i] = a[i-1] ;
else
{
if ( i == pos )
a[i] = ele ;
else
a[i] = a[i] ;
}
}
printf("\n Array After Inserting element :\n") ;
for (  i = 1 ; i < = n ; i++)
pcanf("%d \t",a[i]) ;
return ( 0 ) ;
}
OUTPUT:
Enter the number of the position 5
Enter array elements 12
32
42
21
23
Enter position that you want to enter 55
Array after inserting elements 12  32  42  55  21  23
```