Experiment-1. Denogram for malloe () function # include ( stdio.h) # include < stallib.h> int main () int mm integue, é; prints ("Enter the number of un legue;"); scanf (" bd", & min integers) int \* ptr = (int \*) malloe (mm\_ integres \* size of (int)); if (ptr== MULL) ( printf ("Memory Allocation failed"); return 1; for(i=0; i< num integres; i++)1 scanf ("Fitu an inlight for element "hd: print (" In "The entrud integres are: for(i=0; e < num\_integres; e++){
printf("%d", \*(plx+i)); \_ printf("\n") 2 Ketsvin 0;

Bakari

septimental New York

Enter the number of integers : 5
Enter an integer for element 1: 23
Enter an integer for element 2: 56
Inter an integer for element 3: 59
Enter an integer for element 4: 45
Enter an integer for element 5: 25
The entered integers are: 23 56 89 45 25

Process exited after 7:328 seconds with return value 9
Press any key to continue

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Igano		:

Experiment 2.
_ C Program for callor () function
# include (stdio h)
# include (stalib.h)
int main Ol
int mem inlegure, i;
- print ("Enter the number of integers :");
- Scant ("Tod, & num integure),
_ int * ptu = (int *) calloe (min_integers, size of (int));
if (pti == NULL){.
- printy ("Memory allocation failed!");
Hetery 1;
for(i=0; si < num_integers; i++) [  prints ("Enter an integer for element" d: "i+1);
printy ("Enter an integer for element "d:" 1+1)
scanf ("% d", pty +i)",
printf (" \" The integue are ; ");
for(l=0; i < num inligurs: e++) 1.
for( e = 0; i < num_integers; e++) {.
prints ("/m");
rutum 0;

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M. Carlo

Enter the number of integers : 5
Enter an integer for element 1, 10
Enter an integer for element 2, 13
Enter an integer for element 2, 13
Enter an integer for element 3, 15
Enter an integer for element 4: 19
Enter an integer for element 5: 56
The entered integers are: 10, 13, 15, 19, 56

Process exited after 12.9 seconds with return value 0
Press any key to contains.

(<u>)</u>)

CProgram to demostrate the use of realloc () function.
# include (stdio.h)
_ # include < stallib h>
int main Ot
int_num_integers, i
_ printf ("Enter the number of integers:");
_ Scenf ("%d", & mum integers);
printf ("Enter the number of integers:"); Scenf ("%d", & num integers); int * ptr = (int *) malloe (num * size of (int));
$\mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} $
printf ("Memory allocation failed!\");
return 1;
$\frac{1}{2} \frac{1}{2} \frac{1}$
for (i=0; i < num; i++) [.
print ("Enter an inleger for element ">d:", i+1);
_ scanf ("% d", plu + i);
printf ("In the entend integres are: ");
Love (e = 0) i < num e++)1
- for (i = 0; i < num, o ++)1.
_ printf ("in"))

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; )

Enter the number of integers: 3
Enter an integer for element 1: 90
Enter an integer for element 2: 26
Enter an integer for element 3: 19

The entered integers are: 90 20 19
Enter the new number of integers: 4
Enter an integer for element 1: 26
Enter an integer for element 2: 67
Enter an integer for element 3: 91
Enter an integer for element 4: 2

The newly entered integers are: 26 67 91 2

Process exited after 26.45 seconds with return value 0
Press any key to continue . . .

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int new num; prints ("Enter the new number of integres:"); "Scanf (" 1/2 d", & new num); int \* ptu new = (int \*) malloe ( ptu new num + Size of (inl)) if (pti\_new == NULL) { printf [" Memory allocation failed! (m")) Heteren 1; for (i = 0) exnew num; (++)1. - prints l'Enter an inleger for element "bd:" Scanf (" /d", plu\_nev+1); printf ("\" The newly enlined untegers are: "); for ( i=0; e< new\_slug e++)1. printf ("%d", \*(pti+e)); print ("\m"); rutum 0;\_

 $G(\overline{\mathbb{Q}},\overline{\mathbb{Q}})$ 

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(<sub>2</sub>)

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C Program for free () function
Hendude Soldio h>
# endude (sldlib.h)
int main Od
int num, i;
Scanf (" % d", & num);
int * ptu = (int *) malloe (num + signey (int));
au 11 ( ote = - NID )
- por 4 (ptr = = NULL) {
Mitivin 1)
for (e=0; e< num; i+1){.
- prints ("Enter an integer for element "od;" i+1), - scamp ("% od", ptr +i);
)
prints ("\n");
- prints (" \m The entired entegors are: ")
for(i=0;i <num;e++)1< td=""></num;e++)1<>
= _ printy ("/od" + (plu + e)); _
$   \frac{1}{2}$ $\frac{1}{2}$ $$
puint ("\m"))
_ free (ptr) j_
printf!" The memory is now empty \m"))
retivin_0;

FEED II.

Tana Jerra Kabupat B

Fotor the number of integers : 5
Enter an integer for element 1: 23
Enter an integer for element 2: 89
Enter an integer for element 3: 45
Enter an integer for element 4: 69
Enter an integer for element 5: 20
The entered integers are: 23 80 45 69 29
The memory is now empty

Process exited after 9.582 seconds with return value 0
Press any key to continue ...