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/*shivajiraje kale 2406090 h1*/

#include<stdio.h>
#include<stdlib.h>
void main()
{ int *ptr_malloc,*ptr_calloc,i,size;
      clrscr();
      printf("\n Enter a size of array:");
      scanf("%d",&size);
      ptr_malloc=(int*)malloc(size*sizeof(int));
      if(ptr_malloc==NULL)
      {
            printf("\n Memory allocation failed");
            getch();
            }
       ptr_calloc=(int*)calloc(size,sizeof(int));
       if(ptr_calloc==NULL)
       {
            printf("\n Memory allocation failed");
            free(ptr_malloc);
            getch();
            }
            printf("\n memory allocated by malloc:");
            for(i=0;i<size;i++)
            {
              ptr_malloc[i]=i+1;
              printf("%d",ptr_malloc[i]);
              }
            printf("\n");
            printf("\n memory allocated by calloc:");
            for(i=0;i<size;i++)
            {
                ptr_calloc[i]=(i+1)*10;
                printf("%d",ptr_calloc[i]);
                }
            printf("\n");
            free(ptr_malloc);
            free(ptr_calloc);
            getch();
            }
/*  output
 Enter the size of Array:2
 Memory allocated by malloc:12
 Memory allocated by calloc:1020*/
```