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EX1:
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#include <stdio.h>
#include <stdlib.h>
int main()
  int m = 29;
  printf("Address of m : 0x%x\n", &m);
  printf("Value of m : %d\n",m);
  int* ab =&m;
  printf("Now ab is assigned with the address of m.\n");
  printf("Address of pointer ab : 0x%x\n",ab);
  printf("Content of ab: %d\n", *ab);
  *ab = 34;
  printf("The value of m assigned to 34 now.\n");
  printf("Address of pointer ab : 0x%x\n",ab);
  printf("Content of ab: %d\n", *ab);
  *ab = 7;
  printf("The pointer variable ab is assigned with the value 7 now\n");
  printf("Address of m : 0x%x\n", &m);
  printf("Value of m : %d\n",m);
  return 0;
}
EX2:
#include <stdio.h>
#include <stdlib.h>
int main()
{
  char c = 'A';
  char *ptr = &c;
  int i;
  for(i=0; i<(('Z' - 'A')+1); i++, c++)
  printf("%c ", *ptr);
  return 0;
}
```

Ex3:

#include <stdio.h>

```
#include <stdlib.h>
#include <string.h>
int main()
  char st[10];
  int i;
  printf("input a string: ");
  scanf("%s", st);
  char*ptr;
  ptr=&st[(strlen(st)-1)];
  for(i=strlen(st);i>0;i--,ptr--)
    printf("%c",*ptr);
  }
  return 0;
EX4:
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int main()
  int i,e num;
  printf("Input the number of elements to store in the array (max 15):");
  scanf("%d",&e_num);
  int arr[e_num];
  printf("Input 5 number of elements in the array :\n");
  for(i=0; i<e_num; i++)
    printf("element - %d: ",i+1);
    scanf("%d",&arr[i]);
  }
  int*ptr = arr+e_num-1;
  printf("The elements of array in reverse order are :\n");
  for(i=e_num-1; i>=0; i--)
  {
   printf("element - %d: %d\n",i,*ptr--);
```

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// ptr--;
 }
 return 0;
}
EX5:
struct employee
 int id;
 char name[10];
int main()
{
 struct employee s1 = {123,"eslam"};
 struct employee s2 = {345, "youssef"};
 struct employee s3 = {567, "hosny"};
 struct employee * arr[3] = {&s1,&s2,&s3};
 struct employee *(*ptr)[3];
 ptr=arr;
 printf("%d\t%s\n",(**ptr)->id, (**ptr)->name);
 printf("%d\t%s\n",(**ptr-1)->id,(**ptr-1)->name);
 printf("%d\t%s\n",(**ptr-2)->id,(**ptr-2)->name);
 return 0;
EX6:
```