**1- Can you guess the output of following C program?**

#include <stdio.h>

int main()

{

int var =10;

int \*p;

p= &var;

printf ( "Address of var is: %p", &var);

printf ( "\nAddress of var is: %p", p);

printf ( "\nValue of var is: %d", var);

printf ( "\nValue of var is: %d", \*p);

printf ( "\nValue of var is: %d", \*( &var));

/\* Note I have used %p for p's value as it represents an address\*/

printf( "\nValue of pointer p is: %p", p);

printf ( "\nAddress of pointer p is: %p", &p);

return 0;

}

**Output:**

**Address of var is: 4000**

**Address of var is: 4000**

**Value of var is: 10**

**Value of var is: 10**

**Value of var is: 10**

**Value of pointer p is: 4000**

**Address of pointer p is: 4000**

**2- Write a program in C to add two numbers using pointers.**

Test Data :  
Input the first number : 5  
Input the second number : 6  
Expected Output :

The sum of the entered numbers is : 11

**3- Write a program in C to store n elements in an array and print the elements using pointer.**

Test Data :  
Input the number of elements to store in the array :5  
Input 5 number of elements in the array :  
element - 0 : 5  
element - 1 : 7  
element - 2 : 2  
element - 3 : 9  
element - 4 : 8  
Expected Output :

The elements you entered are :

element - 0 : 5

element - 1 : 7

element - 2 : 2

element - 3 : 9

element - 4 : 8

**4- Write a program in C to Calculate the length of the string using a pointer**

Test Data :  
Input a string : w3resource  
Expected Output :

The length of the given string w3resource

is : 10

**5- Write a program in C to swap elements using call by reference.**

Test Data :  
Input the value of 1st element : 5  
Input the value of 2nd element : 6  
Input the value of 3rd element : 7  
Expected Output :

The value before swapping are :

element 1 = 5

element 2 = 6

element 3 = 7

The value after swapping are :

element 1 = 7

element 2 = 5

element 3 = 6

**6- Write a program in C to compute the sum of all elements in an array using pointers.**

Test Data :  
Input the number of elements to store in the array (max 10) : 5  
Input 5 number of elements in the array :  
element - 1 : 2  
element - 2 : 3  
element - 3 : 4  
element - 4 : 5  
element - 5 : 6  
Expected Output :

The sum of array is : 20

**7- Write a program in C to print a string in reverse using a pointer.**

Test Data :  
Input a string : w3resource  
Expected Output :

Pointer : Print a string in reverse order :

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Input a string : w3resource

Reverse of the string is : ecruoser3w