**LAB1**

1. WAP( write a program ) to define an integer variable a , define a pointer to integer and assign a’s address, print a and its address, print the pointer value containing the address of a.
2. Add two numbers using pointers and store the result in another pointer and print the result.
3. WAP to swap two numbers with the help of swapp( ) function.
4. Program to find the smaller of two numbers by taking address of two numbers as input and returning address of smaller number as output
5. WAP to print the value of a by 4 means: – Directly using a – Using pointer p { where p is a pointer to a}– Using pointer q { where q is a pointer to p}– Using pointer r{ where r is a pointer to q}
6. Demonstrate through a program that, If the name of an array is a pointer, we can store this pointer in a pointer variable and use it in the same way we use the array name.
7. WAP to Define and initialize the array, define a pointer and initialize it to point to the first element of the array by assigning the array name, print the first element in the array using both index and pointer notations.
8. WAP to create a pointer to an integer and store the address of the second element of the array i.e a[1] , this pointer can be used as an array name and can be indexed, print the first 2 elements using array name as well as by pointer.
9. WAP to demonstrate sizeof( ) operator.
10. WAP to demonstrate moving through array using pointers forward and backward.
11. Write Binary search program using pointers.