



CN LAB-1

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1. Swap two numbers using pointers

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int a_534,b_534;
    scanf("%d%d",&a_534,&b_534);
    printf("\nBefore swapping the values are ");
    printf("%d %d\n",a_534,b_534);
    int *p_534,*q_534;
    p_534=&a_534;
    q_534=&b_534;
    int *temp;
    temp=p_534;
    p_534=q_534;
    q_534=temp;
    printf("\nAfter swapping the values are %d %d",*p_534,*q_534);
    return 0;
}
```

OUTPUT:

```
kiit@kiit-VirtualBox:~/1906534/CN/lab1$ gcc Q1.c -o swapping
kiit@kiit-VirtualBox:~/1906534/CN/lab1$ ./swapping
Enter two numbers :4 5

Before swapping the values are 4 5

After swapping the values are 5 4
```

2. Display student info using structure

```
#include<stdlib.h>
#include<stdio.h>
struct info
{
    int roll_534;
    char name_534[50];
    float cgpa_534;
};
void display(struct info *a_534)
{
    printf("roll no is %d\n name is %s\n cgpa is %f\n",a_534->roll_534,a_534->name_534,a_534->cgpa_534);
}
int main()
{
    struct info *a_534=(struct info *)malloc(sizeof(struct info));
    printf("\nEnter the details\n");
    scanf("%d",&(a_534->roll_534));
    scanf("%s",a_534->name_534);
    scanf("%f",&(a_534->cgpa_534));
    display(a_534);
    return 0;
}
```

OUTPUT :

```

kiit@kiit-VirtualBox:~/1906534/CN/lab1$ gcc Q2.c -o studentinfo
kiit@kiit-VirtualBox:~/1906534/CN/lab1$ ./studentinfo

Enter Roll Number      534

Enter Name              ankit

Enter CGPA              9.34
roll no is 534
name is ankit
cgpa is 9.340000

```

3. Print the endianness of a number

```

#include<stdio.h>
#include<stdlib.h>void extract(int x_534)
{
int a_534,b_534,c_534,d_534;
a_534=x_534&0xff;
b_534=(x_534>>8)&0xff;
c_534=(x_534>>16)&0xff;
d_534=(x_534>>24)&0xff;
printf("%d %d %d %d",a_534,b_534,c_534,d_534);
}

int main()
{
int x_534;
scanf("%d",&x_534);
extract(x_534);
return 0;
}

```

OUTPUT :

```

kiit@kiit-VirtualBox:~/1906534/CN/lab1$ gcc Q3.c -o endianness
kiit@kiit-VirtualBox:~/1906534/CN/lab1$ ./endianness
4
4 0 0 0kiit@kiit-VirtualBox:~/1906534/CN/lab1$

```

4. Check whether your system is little endian or big endian

```

#include<stdio.h>
#include<stdlib.h>
void extract(int x_534)
{
int d_534;
if(d_534==x_534)
printf("\nBig endian\t");
else
printf("\nLittle endian\t");
}

int main()
{int x_534;
scanf("%d",&x_534);
extract(x_534);
return 0;
}

```

OUTPUT:

```

kiit@kiit-VirtualBox:~/1906534/CN/lab1$ gcc Q4.c -o endian
kiit@kiit-VirtualBox:~/1906534/CN/lab1$ ./endian
7

Little endian    kiit@kiit-VirtualBox:~/1906534/CN/lab1$

```