**Kalinga Institute of Industrial Technology**

**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;**

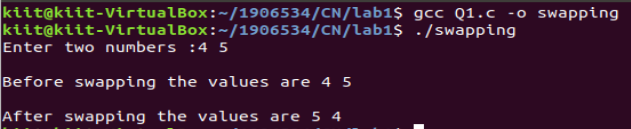
**q\_534=temp;**

**printf("\nAfter swapping the values are %d %d",\*p\_534,\*q\_534);**

**return 0;**

**}**

**OUTPUT:**



**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\t");**

**scanf("%d",&(a\_534->roll\_534));**

**scanf("%s",a\_534->name\_534);**

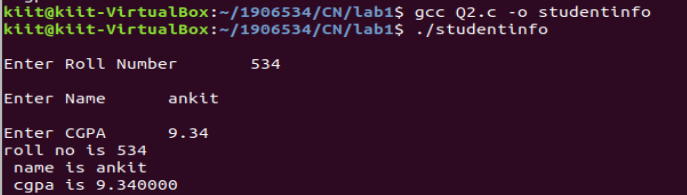
**scanf("%f",&(a\_534->cgpa\_534));**

**display(a\_534);**

**return 0;**

**}**

**OUTPUT :**



**3. Print the endianess 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;**

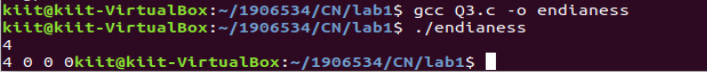
**scanf("%d",&x\_534);**

**extract(x\_534);**

**return 0;**

**}**

**OUTPUT :**



**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;**

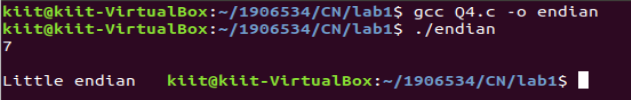
**scanf("%d",&x\_534);**

**extract(x\_534);**

**return 0;**

**}**

**OUTPUT:**

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