Lab-2

1. **WAP to store roll,name & percentage of n students display every record in descending order of their percentage using structure.**

```
#include<stdio.h>
struct students
{
int roll,per;
char name[50];
 }
s[100];
void main()
{
 int i,n;
clrscr();
printf("How many record(max=100)?");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("Enter roll=");
scanf("%d",&s[i].roll);
 printf("\nEnter name=");
 scanf("%s",s[i].name);
 printf("\nEnter percentage=");
scanf("%d",&s[i].per);
}
for(i=0;i<n-1;i++)
{
for(j=i+1;j<n;j++)
{
if (s[j] per<s[i] per)
{
 t=s[i];
 s[i]=s[j];
 s[j]=t;
}
}
}
```

```
printf("\nrecord in desending order are displayed below");
 for(i=0;i<n;i++)
{
printf("\nroll=%d\tname=%s\tper=%d",s[i].roll,s[i].name,s[i].per);
}
getch();
}
```

2. WAP to swap the value of two number using pointer & function.

```
#include<stdio.h>
 void main(int*x,int *y );
 void main()
{
int x=5,y=10;
 clrscr();
swap(&x,&y);
printf("After swapping value of x is %d and y is %d",x,y);
getch();
}
void swap(int*x,int*y)
{
int t;
 t=*x;
*x=*y;
*y=t;
}
```

3. WAP to store roll,name & percentage of n student in " Studentsrecord.text"file and display every details of students having per >80.

```
#include<stdio.h>
void main()
{
int roll,per,n,i;
char name[30];
FILE*fp;
clrscr()
printf("How many students?");
```

```
scanf(“%d”,&n);
fb=fopen(“Studentsrecord.text”,”w”);
for(i=0;i<n;i++)
{
printf(“Enter roll=”);
scanf(“%d”,&roll);
printf(“Enter name=”);
scanf(“%s”,&name);
printf(“Enter percentage=”);
scanf(“%d”,&per);
fprintf(fb,”%d\t%s\t%d”,roll,name,per);
{
fclose(fp);
fp = fclose(“studentsrecord.text”,”r”);
while((fscanf(fb,”%d\t%s\t%d\n”,& roll,name & per))!=EOF)
{
if(per>=0 &&per<=80)
{
printf(“roll=%d\tname%s\tper=%d\n”,roll,name,per);
}
fcolse(fp);
getch();
}
```

4. WAP to calculate factorial number of an input number using function.

```
#include<stdio.h>
long int fact(int n)
void main()
{
 int n;
printf(“\n Enter the value of :”);
scanf(“%d”,&n);
printf(“\nThe factorial of given number is %d”,fact(n));
}
long int fact(int n)
{
int i;
for(i=1;i<n;i++)
f=f*i;
return(f);
}
```