

## EXPERIMENT NO.5

### SOLUTIONS

**1 Swap two numbers using user defined function with no argument and no return type**

ANS-

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void swap();
```

```
void main()
```

```
{clrscr();
```

```
swap();
```

```
getch();}
```

```
void swap()
```

```
{int c,d;
```

```
printf("enter two numbers\n");
```

```
scanf("%d%d",&c,&d);
```

```
c=c+d;
```

```
d=c-d;
```

```
c=c-d;
```

```
printf("\nc=%d",c);
```

```
printf("\nd=%d",d);  
}
```

**2) Implement a program to find square of number using function.**

**(Prototype: no argument, no return type)**

ANS-

```
#include<stdio.h>  
  
#include<conio.h>  
  
void min(int a,int b);  
  
void main()  
{int a,b;  
clrscr();  
printf("enter two numbers\n");  
scanf("%d%d",&a,&b);  
min(a,b);  
getch();}  
  
void min(int a,int b)  
{if(a<b)  
{printf("a is minimum");}  
else  
{printf("b is minmum");
```

```
}
```

```
}
```

**3) Implement a program to find minimum of number using function**

**(Prototype: with argument, no return type)**

ANS-

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void min(int a,int b);
```

```
void main()
```

```
{int a,b;
```

```
clrscr();
```

```
printf("enter two numbers");
```

```
scanf("%d%d",&a,&b);
```

```
min(a,b);
```

```
getch();
```

```
}
```

```
void min(int a,int b)
```

```
{if(a<b)
```

```
{printf("a is min");}
```

else

```
{printf("b is min");}
```

```
}
```

**4) Implement a program to find maximum of two numbers using function**

**(Prototype: no argument, with return type)**

ANS-

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
int max();
```

```
void main()
```

```
{int y;
```

```
clrscr();
```

```
y=max();
```

```
printf("max=%d",y);
```

```
getch();
```

```
}
```

```
int max()
```

```
{int a,b;
```

```
printf("enter two numbers\n");
```

```
scanf("%d%d",&a,&b);
```

```
if(a>b)
{return(a);}

else
{return(b);}

}
```

**5) Implement a program to find average of three numbers using function**

**(Prototype: with argument, with return type)**

**(Use any prototype for following)**

ANS-

```
#include<stdio.h>

#include<conio.h>

int avg(int a,int b,int c);

void main()
{int a,b,c,A;

clrscr();

printf("enter three numbers\n");

scanf("%d%d%d",&a,&b,&c);

A=avg(a,b,c);

printf("average=%d",A);

getch();
```

```
}
```

```
int avg(int a,int b,int c)
```

```
{int average;
```

```
average=(a+b+c)/3;
```

```
return(average);}
```