Experiment No:-

Name :- Kaustubh. V. Mali
Roll No: 29
S.E Computer Sem IV
Microprocessor.

Aim: Write mix language program to find square
of roll number

R Program:-

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

void main()
{
    int n,c;
    clrscr();
    printf ("I/p your roll number :");
    scanf ("%d", &n);

    asm {
        mov ax, n
        mul ax
        mov c, ax
    }
    printf ("square of your roll  no. is.
                : %d", c);
    getch();
}
```

Output : I/p your roll no: 29

            Square of your roll no: 841

```
I/P your roll number : 29
Square of your roll no. is : 841_
```

Experiment No :-

Name :- Kaustubh . V. Mali.
Roll. No : 29
S.E. Comp Sem IV
Microprocessor.

Aim: Write mix language programs to find factorial of given number.

Program :-

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

void main ( )
{
    int n;
    unsigned int c;
    clrscr ( );
    print f ("I/P number (your roll number %.9 ): ");
    asm {
        mov ax, 0001h
        mov cx , n
        cmp cx , 0000h.

        } je exit.

    repl :
        asm {
            mul cx ;
            loop repl
        }
```

```asm
exit: asm mov c, ax;
    prints ll "factorial of no is: %u", ();
    getch ();
}
```

Output:
    I/p (your roll number %9); 25
    factorial of no. is; 2

```
I/P number (your roll number % 9) : 2
factorial of no. is : 2
```