

**PRACTICAL – 3**

- a) Write a program using while loop to reverse the digits of a number.

```
#include <stdio.h>

int main( )
{
    int num, sum , rem;
    sum=0;
    /* Initialize and read in a value for num */
    printf("Enter an integer :\n ");
    scanf("%d", &num);
    /*Calculating reverse number*/
    while(num != 0)
    {
        rem = num%10;
        sum = sum*10 + rem;
        num /= 10;
    }
    printf("Reversed Number = %d",sum);
    return 0;
}
```

**OUTPUT :**

Enter an integer :

2711

Reversed Number = 1127

- b) Write a program to calculate the factorial of a given number.

```
#include <stdio.h>

int main( )
{
    int num, fact, i;
    fact=1;
    /* Initialize and read in a value for num */
```



```
printf("\nEnter any number =");
scanf("%d",&num);
/*Calculating factorial*/
for (i = 1; i <= num; i++)
{
    fact = fact * i;
}
printf("Factorial of %d = %d\n", num, fact);
return 0;
}
```

**OUTPUT :**

Enter any number =4

Factorial of 4 = 24

**c) Write a program to print the Fibonacci series.**

```
#include<stdio.h>
int main( )
{
    int i,a,b,c,num;
    a=0;
    b=1;
    /* Initialize and read in a value for num */
    printf("\n Enter number = ");
    scanf("%d",&num);
    printf("\n Fibonacci series up to %d term \n ",num);
    /* By default Fibonacci series starting values 0 and 1 */
    printf("%d\t%d",a,b);
    /*Remaining Fibonacci series values calculating */
    for(i=3;i<=num;i++)
    {
        c=a+b;
        printf("\t%d",c);
```



```

a=b;
b=c;
}
return 0;
}

```

**OUTPUT :**

Enter number = 5

Fibonacci series up to 5 term

0 1 1 2 3