EXP - 1

TITLE: C Program to Find A Given Number is Even or Odd

PROGRAM:

```
#include <stdio.h>
int main()
{
    int a;
    printf("Enter The Number:");
    scanf("%d",&a);
    if(a%2==0)
    {
        printf("Entered Number is Even");
    }
    else
    {
        printf("Entered Number is Odd");
    }
}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding Whether a given Number is Even or Odd is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Print the Sum of First 'N' Numbers

PROGRAM:

```
#include <stdio.h>
int main()
{
    int sum=0,n,i;
    printf("Enter The range:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        sum=sum+i;
    }
    printf("The Sum of First %d Numbers is %d",n,sum);
}</pre>
```

INPUT AND OUTPUT:

```
enter the range:2
the sum of first 2 numbers is 3
------
Process exited after 7.821 seconds with return value 0
Press any key to continue . . .
```

RESULT:

The C Program for Finding Sum of First 'N' Numbers is Compiled and Executed Using Dev-C++ and the Output is Verified.

EXP - 3

TITLE: C Program to Find the Sum of Even Numbers in First 'N' Numbers

PROGRAM:

```
#include <stdio.h>
int main()
{
    int sum=0,n,i;
    printf("Enter The range:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        if(i%2==0)
        { sum=sum+i;}
    }
    printf("The Sum of Even Numbers in First %d Numbers is %d",n,sum);
}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding Sum Of Even Numbers in First 'N' Numbers is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Print the Sum of Odd Numbers in First 'N' Numbers

EXP - 4

PROGRAM:

```
#include <stdio.h>
int main()
{
    int sum=0,n,i;
    printf("Enter The range:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        if(i%2!=0)
        { sum=sum+i;}
    }
    printf("The Sum of Odd Numbers in First %d Numbers is %d",n,sum);
}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding Sum of Odd Numbers in First 'N' Numbers is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Find the Factorial of a Given Number Without Recursion

PROGRAM:

EXP - 5

```
#include <stdio.h>
int main()
{
    int fact=1,n;
    printf("Enter The Number to find its
Factorial:");
    scanf("%d",&n);
    int k=n;
    while(n!=0)
    {
        fact=fact*n;
        n--;
     }
    printf("The Factorial of the Given Number is %d",fact);
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding the Factorial of Given Number without Recursive function is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Find the Factorial of a Given Number Using Recursion

EXP - 6

PROGRAM:

```
#include <stdio.h>
int fact(int n)
{
        int f;
        if(n==1)
               return 1;
        }
        else
               f=n*fact(n-1);
        return f;
}
int main()
{
        int n;
        printf("Enter The Number to Find its Factorial:");
        scanf("%d",&n);
        printf("The Factorial of %d is %d",n,fact(n));}}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding the Factorial of Given Number without Recursive function is Compiled and Executed Using Dev-C++ and the Output is Verified.

EXP - 7

TITLE: C Program to Print Fibonacci Series Upto 'N' Range Without Recursion

PROGRAM:

```
#include <stdio.h>
int main()
{
    int a=0,b=1,c=0,n;
    printf("Enter The Series Range:");
    scanf("%d",&n);
    while(n!=0)
    {
        printf("%d ",a);
        a=b+c;
        b=c;
        c=a;
        n--;
    }
}
```

INPUT AND OUTPUT:

```
Enter The Series Range:3
0 1 1
------
Process exited after 8.508 seconds with return value 0
Press any key to continue . . .
```

RESULT:

The C Program for Printing Fibonacci Series without using Recursive function is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program Print Fibonacci Series Upto 'N' Range With Recursion

PROGRAM:

PROGRAM:

```
#include <stdio.h>
int fib(int n,int a,int b, int c)
{
        if(n>1)
        {
                 printf("%d ",c);
                 a=b+c;
                 b=c;
                 c=a;
                 n--;
                 fib(n,a,b,c);
        }
        else
        {
                 printf("%d ",c);
        }
}
int main()
{
        int a;
        printf("Enter The Range of Series:");
        scanf("%d",&a);
        fib(a,0,1,0);
}
```

INPUT AND OUTPUT:

```
Enter The Range of Series:4
0 1 1 2
------
Process exited after 8.674 seconds with return value 0
Press any key to continue . . .
```

RESULT The C Program for Finding the Fibonacci Using Recursive function is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Reverse a Given Number

EXP - 9

PROGRAM:

```
#include <stdio.h>
int main()
{
    int a,b=0;
    printf("Enter The Number:");
    scanf("%d",&a);
    while(a!=0)
    {
        b=b*10+a%10;
        a/=10;
    }
    printf("The Reversed Number is %d",b);
}
```

INPUT AND OUTPUT:

```
Enter The Number:79817
The Reversed Number is 71897
_______
Process exited after 8.493 seconds with return value 0
Press any key to continue . . .
```

RESULT:

The C Program to Reverse a Number is Compiled and Executed Using Dev-C++ and the Output is Verified.

TITLE: C Program to Find the Given Number is Palindrome or Not.

EXP -

PROGRAM:

```
#include <stdio.h>
int main()
{
       int a,b=0;
       printf("Enter The Number:");
       scanf("%d",&a);
       int c=a;
       while(a!=0)
       {
              b=b*10+a%10;
              a = 10;
       }
       if(c==b){
       printf("The Number is Palindrome");}
       else
       {
               printf("The Number is Not a Palindrome");
       }
}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding a Given Number is Palindrome or Not is Compiled and Executed Using Dev-C++ and the Output is Verified.

EXP -

TITLE: C Program to Find the Given Number is an Armstrong Number or Not.

PROGRAM:

```
#include <stdio.h>
int main()
{
        int a,b=0,c=0;
        printf("Enter The Number:");
        scanf("%d",&a);
        int d=a;
        while(a!=0)
        {
                c=a\%10;
                b=b+(c*c*c);
                a = 10;
        }
        if(b==d)
                printf("The Number is an Armstrong Number");
        }
        else
                printf("The Number is Not an Armstrong Number");
        }
}
```

INPUT AND OUTPUT:

RESULT:

The C Program for Finding the Factorial of Given Number without Recursive function is Compiled and Executed Using Dev-C++ and the Output is Verified.