1. Finding whether the given integer is odd or even?

PROGRAM:

```
#include<stdio.h>

int main()

{

        int n;

        printf("enter the number: ");

        scanf("%d",&n);

        if(n%2==0)

        {

                printf("the number %d is even",n);

        }

        else

        {

                printf("the number %d is odd", n);

        }

}
```

2. Finding the given integer is positive or negative?

PROGRAM:

```
#include <stdio.h>

int main()

{

        int n;

        printf("enter the number: ");

        scanf("%d",&n);

        if(n>=0)

        {

                printf(" the given number %d is positive",n);

        }

        else
```

```
        {

                printf(" the given number %d is negative",n);

        }

        return 0;

}
```

3. Generation of Fibonacci series 0,1,1,2,3,5,8……n ?

PROGRAM:

```
#include<stdio.h>

int main()

{

        int n,n1=0,n2=1,n3,i;

        printf("enter the number of elements: ");

        scanf("%d",&n);

        printf("\n%d\n%d\n",n1,n2);

        for(i=2;i<n;i++)

        {

                n3=n1+n2;

                printf("%d\n",n3);

                n1=n2;

                n2=n3;

        }

        return 0;

}
```

4. Program for finding the factorial of a given number(product series) ?

PROGRAM:

```
#include<stdio.h>

int main()

{

   int i,r=1,n;
```

```c
    printf("Enter a number: ");

    scanf("%d",&n);

    for(i=1;i<=n;i++)

        {

        r=r*i;

        }

    printf("Factorial of %d is: %d",n,r);

    return 0;

}
```

5. Finding the given number is Armstrong or not ?

PROGRAM:

```c
#include<stdio.h>

int main()

{

        int n;

        int sum=0,r,temp;

        printf("enter the number: ");

        scanf("%d",&n);

        temp=n;

        while(n>0)

        {

                r=n%10;

                sum=sum+(r*r*r);

                n=n/10;

        }

        if (temp==sum)

        {

                printf("given number %d is armstrong number.",n);

        }

        else
```

```
        {

                printf("given number %d is not armstrong number.",n);

        }

}
```

6. Summing up the n numbers and finding its average?

PROGRAM:

```c
#include <stdio.h>

int main()

{

    int sum=0,n,i;

    float avg;

    printf("Please Enter term of n number:-");

    scanf("%d",&n);

    for(i=1;i<=n;i++)

    {

        sum+=i;

    }

    avg=sum/n;


    printf("\nThe Sum of n Numbers = %d",sum);

    printf("\nThe Average of n Numbers = %f\n",avg);

}
```

7. Printing digits of an integer number ?

PROGRAM:

```c
#include<stdio.h>

int main()

{

        int n,d;

    printf("enter number:");
```

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

    while(n!=0)

    {

            d=n%10;

        n=n/10;

        printf("%d\n",d);

    }

    return 0;

}
```

8. Summing up the digits of an integer numbers ?

PROGRAM:

```c
#include<stdio.h>

int main()

{

        int n;

        int sum=0,r;

        printf("enter the number: ");

        scanf("%d",&n);

        while(n>0)

        {

                r=n%10;

                sum=sum+r;

                n=n/10;

        }

        printf("sum=%d",sum);

        return 0;

}
```

9. Reversing the digits of the integer numbers ?

PROGRAM:

```c
#include<stdio.h>
int main()
{
    int n,sum=0,r;
printf("Enter a number: ");
 scanf("%d", &n);
 while(n!=0)
 {
    r=n%10;
    sum=sum*10+r;
    n=n/10;
 }
 printf("Reverse of the Number: %d",sum);
 return 0;
}
```

10. Finding the given integer is positive or negative ?

PROGRAM:

```c
#include <stdio.h>
int main()
{
        int n;
        printf("enter the number: ");
        scanf("%d",&n);
        if(n>=0)
        {
                printf(" the given number %d is positive",n);
        }
```

else

{

        printf(" the given number %d is negative",n);

}

return 0;

}

11. Swapping two numbers with a temporary variable ?

PROGRAM:

#include<stdio.h>

int main()

{

        int a,b,temp=0;

        printf("enter a value: ");

        scanf("%d",&a);

        printf("enter b value: ");

        scanf("%d",&b);

        temp=a;

        a=b;

        b=temp;

        printf("swap of a and b values:%d\n%d");

}