CSA5734-FUNDAMENTALS OF COMPUTING

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

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n;
    printf("enter a number ");
    scanf("%d",&n);
    if(n%2==0)
    {
        printf("even");
    }
    else
    {
        printf("odd");
    }
}
```

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2.Finding the given integer is positive or negative .

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n;
    printf("enter a number");
    scanf("%d",&n);
    if(n>0 && int(n))
    {
        printf("%d is a positive integer",n);
    }
    else
    {
        printf("%d is not a positive integer",n);
    }
}
```

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

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n1=0,n2=1,n3,i,num;
    printf("enter a number");
    scanf("%d",&num);
    printf("%d\n%d\n",n1,n2);
    for(i=2;i<num;i++)
    {
        n3=n1+n2;
        printf("%d\n",n3);
        n1=n2;
        n2=n3;
    }
}
```

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4.Product series (Factorial of a given number).

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n,fact=1,i;
    printf("enter a number ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
       fact*=i;
    }
    printf("factorial of %d=%d",n,fact);
}
```

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5.Finding given number is Armstrong or not .

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n,temp,r,sum=0;
    printf("enter a 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 is a armstrong",n);
    }
    else
    {
        printf("given number is not a armstrong",n);
    }
}
```

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6.Summing up any n numbers and finding average .

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n,i,sum=0;
    float avg;
    printf("enter a number");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
       sum+=i;
    }
    avg=sum/n;
    printf("sum=%d\n",sum);
    printf("avg=%f",avg);
}
```

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7.Printing digits of an integer number .

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n,d;
    printf("enter a number ");
    scanf("%d",&n);
    while(n!=0)
    {
        d=n%10;
        n=n/10;
        printf("%d\n",d);
    }
    return 0;
}
```

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8.Summing up the digits of an integer number.

C PROGRAMMING:

```
#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+r;
       n=n/10;
    }
    printf("sum of digits=%d",sum);
}
```

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9.Revering the digits of an integer number.

C PROGRAMMING:

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

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10.Finding the given integer is positive or negative .

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n;
    printf("enter a number ");
    scanf("%d",&n);
    if(n>0)
    {
        printf("%d is a positive integer",n);
    }
    else
    {
        printf("%d is a negative integer ",n);
    }
    return 0;
}
```

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11.Swapping two numbers with a temporary variable.

C PROGRAMMING:

```
#include<stdio.h>
int main()
{
    int n1,n2,temp;
    printf("enter first number ");
    scanf("%d",&n1);
    printf("enter second number ");
    scanf("%d",&n2);
    temp=n1;
    n1=n2;
    n2=temp;
    printf("n1=%d\n",n1);
    printf("n2=%d",n2);
}
```