

Assignment - 11 C Language LIVE Community Classes MySirG

1. Write a program to calculate sum of first N natural numbers

Answer:

Code:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int number,sum,count;
    printf("\n Enter N Number to Calculate sum = ");
    scanf("%d",&number);

    while(count<=number)
    {
        sum=count+sum;
        count++;
    }
    printf("\n Sum is = %d",sum);
    getch();
}
```

2. Write a program to calculate sum of first N even natural numbers.

Answer:

Code:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int sum=0,number,count=2;
    printf(" Enter to calculate sum of first N even natural number = ");
    scanf("%d",&number);

    while(count<=number*2)
    {
        sum=count+sum;
        count+=2;
    }
    printf("sum is = %d",sum);
    getch();
}
```

3. Write a program to calculate sum of first N odd natural numbers

Answer:

Code:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int sum=0,number,count=1;
    printf("Enter to calculate sum of first N odd natural numbers = ");
    scanf("%d",&number);

    while(count<=number*2)
    {
        sum=count+sum;
        count+=2;
    }
    printf("Sum is = %d",sum);
    getch();
}
```

4. Write a program to calculate sum of squares of first N natural numbers

Answer:

Code:

```
#include<stdio.h>
#include<conio.h>
main()
{
    int sum,square,number,count=1;
    printf("Enter to calculate sum of squares of first N natural numbers = ");
    scanf("%d",&number);

    while(count<=number)
    {
        square=count*count;
        sum=sum+square;
        count++;
    }
    printf("sum is = %d",sum);
    getch();
}
```

5. Write a program to calculate sum of cubes of first N natural numbers

Answer:

Code:

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

```

main()
{
    int sum,cube,number,count=1;
    printf("\n Enter to calculate sum of cubes of first N natural numbers = ");
    scanf("%d",&number);

    while(count<=number)
    {
        cube=count*count*count;
        sum=sum+cube;
        count++;
    }
    printf("Sum of Cubes ins = %d",sum);
    getch();
}

```

6. Write a program to calculate factorial of a number

Answer:

Code:

```

#include<stdio.h>
#include<conio.h>
main()
{
    int count=1,number,f=1;
    printf("Enter the Number = ");
    scanf("%d",&number);

    while(count<=number)
    {
        f=count*f;
        count++;
    }
    printf("factorial is = %d",f);
}

```

7. Write a program to count digits in a given number

Answer:

Code

```

#include<stdio.h>
#include<conio.h>
main()
{
    int count=0,digit,number;
    printf("\n Enter the number = ");
}

```

```

scanf("%d",&number);

while(number!=0)
{
    number/=10;
    count++;
}
printf("\n Digits in Given Number = %d",count);
getch();
}

```

8. Write a program to check whether a given number is a Prime number or not

Answer:

Code:

```

#include<stdio.h>
#include<conio.h>
main()
{
    int number;
    printf("\n Enter the Number = ");
    scanf("%d",&number);

    if(number==1)
        printf("\n This is not a prime number");
    else if(number==2)
        printf("\n This is Prime number");
    else if(number==3)
        printf("\n This is Prime number");
    else if(number%2==0)
        printf("\n this is not a prime number");
    else if(number%3==0)
        printf("\n this is not a prime number");
    else
        printf("\n This is a prime number");

    getch();
}

```

9. Write a program to calculate LCM of two numbers

Answer:

Code:

```

#include<conio.h>
#include<stdio.h>
main()

```

```

{
    int num1,num2,count=1,multiple;
    printf("\n Enter num1 = ");
    scanf("%d",&num1);
    printf("\n Enter num2 = ");
    scanf("%d",&num2);
    multiple=num1*num2;

    while(count<=multiple)
    {
        if(count%num1==0)
        {
            if(count%num2==0)
            {
                printf("\n LCM is = %d",count);
                break;
            }
        }
        count++;
    }
    getch();
}

```

10. Write a program to reverse a given number