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1. #include <stdio.h>
int main()
{
    int n,i;
    printf("enter the integer:");
    scanf("%d",&n);
    if (n<0)
        printf("error!factorial of a negative number doesn't exist");
    else{
        for (i=1;i <=n; ++1)
        {
            fact += 1;
        }
        printf("factorial of %d = %llu",n,fact);
        return 0;
    }
}

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2. #include <stdio.h>

int main()
{
    int i = 1, n, fact = 1;
    printf("enter the number: ");
    scanf("%d, &n):
    do {
        fact = fact * i;
        i++;
    } while(i <= n);
    printf("factorial of %d is %d\n",n,fact);
}

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3. #include <stdio.h>
int main()
{
    int n,sum=0;
    printf("enter the number");
    scanf("%d",&n);
    while(n!=0)
    {
        sum=sum+(n%10);
    }
}

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    n= n/10;
}
printf("sum of digits is %d",sum);
}

```

#### 4. #include <stdio.h>

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int main()
{
    int i, num, n, count;
    printf("enter the range: ");
    scanf("%d", &n);
    printf("the prime numbers in between the range 1 to %d:",n);
    for(num = 1;num<=n;num++)
    {
        count = 0;
        for(i=2;i<=num/2;i++)
        {
            if(num%i==0)
            {
                count++;
                break;
            }
        }
        if(count==0 && num!= 1)
            printf("%d ",num);
    }
}

```

#### 5. #include <stdio.h>

```

int main()
{
    int num,originalNum, remainder, result = 0;
    printf("enter a three digit integer; ");
    scanf("%d",&num);
    original Num = num;
    while (originalNum != 0){
        remainder = originalNum % 10;
        result += remainder * remainder * remainder;
        originalNum /= 10;
    }
    if (result == num)

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    printf("%d is an armstrong number",num);
else
    printf("%d is not an armstrong number",num);
return 0;
}

```

6. #include<stdio.h>

```

int main()
{
    int a,b,c;
    printf("enter the value of a and b");
    scanf( "%d%d" ,&a,&b);
    c=a+b;
    printf("the sum of a and b is %d",c);
    return 0;
}

```

7. #include<stdio.h>

```

int main()
{
    int n, i, flag = 0;
    printf("enter a positive integer; ");
    scanf(" %d", &n);
    if (n == 0 || n == 1)
        flag = 1;
    for (i = 2; i <= n / 2; ++i)
    {
        if (n % i == 0)
        {
            flag = 1;
            break;
        }
    }
    if (flag == 0)
        printf(" %d is a prime number.", n);
    else
        printf(" %d is not a prime number.", n);
}

```