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main.py

```
1 num=int(input("Enter a number:"))
2 factorial=1
3 if num<0:
4     print("factorial does not exist for negativenumbers")
5 elif num==0:
6     print("the factorial of 0 is 1")
7 else:
8     for i in range(1,num+1):
9         factorial=factorial*i
10    print("the factorial of",num,"is",factorial)
```

Run

Shell

Enter a number:8
the factorial of 8 is 1
the factorial of 8 is 2
the factorial of 8 is 6
the factorial of 8 is 24
the factorial of 8 is 120
the factorial of 8 is 720
the factorial of 8 is 5040
the factorial of 8 is 40320
>

Clear

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main.py Run Shell Clear

```
1 nterms=int(input("Enter the number of terms:"))
2 n1,n2=0,1
3 count=0
4 if nterms<=0:
5     print("print a positive integer value")
6 elif nterms==1:
7     print("fibonacci seunce upto",nterms,":")
8     print(n1)
9 else:
10    print("fibonacci seunce:")
11    while count<nterms:
12        print(n1)
13        nth=n1+n2
14        n1=n2
15        n2=nth
16        count+=1
```

Enter the number of terms:7
fibonacci seunce:
0
1
1
2
3
5
8
>

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main.py

```
1 num=int(input("Enter the number for multiplication:"))
2 print("the multiplication table of:",num)
3 for count in range(1,11):
4     print(num,'x',count,'x',num*count)
```

Run

Shell

Clear

the multiplication table of: 5
5 x 1 x 5
5 x 2 x 10
5 x 3 x 15
5 x 4 x 20
5 x 5 x 25
5 x 6 x 30
5 x 7 x 35
5 x 8 x 40
5 x 9 x 45
5 x 10 x 50
> Enter the number for multiplication:

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main.py

```
1 n=int(input("Enter the number:"))
2 count=0
3 while(n>0):
4     count=count+1
5     n=n//10
6 print("The number of digits in the number are:",count)
```

Run

Shell

Enter the number:57429
The number of digits in the number are: 5
> |

Clear

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