1.Given a value, Write a python code to print its first five factors

In [5]: ▶
```python
i = input("Enter value: " )
i= int(i)
print([i*1, i*2 ,i*3, i*4, i*5])
```

```
Enter value: 3
[3, 6, 9, 12, 15]
```

2.Write a python code to print the first "n" prime numbers. Should work for any n

In [36]: ▶
```python
num = int(input("Enter value: "))
c = 2
while num != 0:
    for i in range (2,c):
        if c%i==0:
            break
    else:
        print(c, end = " ")
        num-=1
    c+=1
```

```
Enter value: 5
2 3 5 7 11
```

3.Write a Python program that prompts the user to enter a password. If the password is correct, it prints "Access Granted"; otherwise, it prints "Access Denied" using an if statement.

In [10]: ▶
```python
password = 'HELLO'
user = input("Enter password: ")
if (user == password):
    print("Access Granted")
else:
    print("Access Denied")
```

```
Enter password: hello
Access Denied
```

4.Take a string, Count the number of vowels (a,e,i,o,u) in the string and print the count.

In [18]: ▶
```python
str = input("Enter string: ")
n = len(str)
count = 0
for i in range(n):
    if (str[i] in 'aeiouAEIOU'):
        count += 1
print(count)
```

```
Enter string: string
1
```

5.Take a number as the input and calculate its factorial.

In [27]:

```
n = int(input("Enter number: "))
fact = 1
def factorial(n):
    global fact
    if n == 1:
        return fact
    else:
        fact  = n*factorial(n-1)
        n = n-1
        return fact
print(factorial(n))
```

Enter number: 5
120