In [4]:
```
print("hello")
```

```
hello
```

In [8]:
```
nums = [1,3,8,6]
for i in num:
    print(i)
```

```
1
3
8
6
```

In [10]:
```
num = int(input("Enter a value : "))
fact = 1
for i in range(1,num+1):
    fact*=i
print(fact)
```

```
720
```

In [ ]:
```
# Start with lab assignment
```

In [12]:
```
#To accept and object mass in kg and velocity in m/s and display its momentum.
# Momentum =m*c
# When m-mass,c-velocity
m = int(input("enter a mass in kg:"))
c = int(input("enter a velocity in m/s:"))
momentum = m*c
print("The momentum of object is:",momentum)
```

```
The momentum of object is: 260
```

In [17]:
```
# Write a python program for following conditions
# if n is a single digit number then print square of it.
# if n is two digit number then print square root of it.
# if n is three digit number then print cube root of it.
import math
n = int(input("enter value of n:"))
if (n<10):
    print("square of n:",n*n)
elif(10<=n<100):
    print("square of n:",math.sqrt(n))
elif(100<=n<1000):
    print("cube of n:",n**(1/3))
else:
    print("Please enter the number between 0 and 999")
```

```
square of n: 81
```

In [22]:
```
# Read date of birth and salary in rupees then perform data formation for Date o

from datetime import datetime
def calculate_age(birthdate):
    today = datetime.now()
    birthdate = datetime.strptime(birthdate, "%Y-%m-%d")
    return today.year - birthdate.year - ((today.month, today.day) < (birthdate.
```

```
def salary_in_dollars(salary_in_rupees, conversion_rate=82.5):
    return salary_in_rupees / conversion_rate

birthdate = input("Enter birthdate (YYYY-MM-DD): ")
salary = float(input("Enter salary in rupees: "))

age = calculate_age(birthdate)
salary_usd = salary_in_dollars(salary)

print(f"Age: {age} years")
print(f"Salary in USD: ${salary_usd:.2f}")
```

```
Age: 19 years
Salary in USD: $969.70
```

In [23]:
```
#Print the reverse number of a given number
number = int(input("Enter a number: "))
reverse_number = int(str(number)[::-1])
print(f"Reversed number: {reverse_number}")
```

```
Reversed number: 465
```

In [24]:
```
#Print multiplication table of number n.

n = int(input("Enter a number: "))
for i in range(1, 11):
    print(f"{n} x {i} = {n*i}")
```

```
9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81
9 x 10 = 90
```

In [ ]:
```

```