1)To accept an object mass in kg & velocity in m/s and display it's momentum.

momentum, e =m*c where m=mass,c=velocity

```
In [1]:  m=float(input("Enter mass:"))
         c=float(input("Enter velocity:"))
         e=m*c
         print("The value of momentum is:",e)
```

```
The value of momentum is: 6.0
```

WAP for following conditions

1)if n is single digit number then print square of it

2)if n is two digit number then print square root of it

3)if n is three digit number then print cube of it

```
In [2]:  import math
         n=int(input("Enter the value of n:"))
         if (n<10):
             print("Square of n:",n*n)
         elif (n>=10 and n<100):
             print("Square root of n:",math.sqrt(n))
         elif (n>=100 and n<=999):
             print("Cube of n:",n**3)
         else:
             print("Please enter n between 0 and 999")
```

```
Cube of n: 997002999
```

3)Read DOB and Salary in rupees then perform data formation for DOB to age & salary in dollars.

```
In [3]:  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: 18 years
Salary in USD: $18181.82
```

4)Print the reverse number of a given number.

```
In [6]:  number = int(input("Enter a number: "))
         reverse_number = int(str(number)[::-1])
         print(f"Reversed number: {reverse_number}")
```

```
Reversed number: 54
```

5)Print multiplication table of number n.

```
In [7]:  n = int(input("Enter a number: "))
         for i in range(1, 11):
             print(f"{n} x {i} = {n*i}")
```

```
10 x 1 = 10
10 x 2 = 20
10 x 3 = 30
10 x 4 = 40
10 x 5 = 50
10 x 6 = 60
10 x 7 = 70
10 x 8 = 80
10 x 9 = 90
10 x 10 = 100
```