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")</pre>
```

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.</pre>
    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 \times 1 = 10
     10 \times 2 = 20
     10 \times 3 = 30
     10 \times 4 = 40
     10 \times 5 = 50
     10 \times 6 = 60
     10 \times 7 = 70
     10 \times 8 = 80
     10 \times 9 = 90
     10 \times 10 = 100
```