1] To Accept an object mass in kilogram and velocity in m/s and display its momemtum.

m=float(input("Enter mass ")); c=float(input("Enter velocity ")); momemtum=m*c; print("The momemtum of the object is", momemtum); The momemtum of the object is 2000.0

2] Write a program for following conditions

1]If 'n' is single digit

number then print square of it.

2]If 'n' is two digit number then print squareroot of it.

3]If 'n' is three digit number then print cube of it.

```
import math;
n=int(input("Enter a number"));
if n<10:
   print("Square of n :",n*n);
elif 10<=n<100:
   print("Squareroot of n:", math.sqrt(n));
elif 100<=n<1000:
   print("Cube of n:",n*n*n);
   print("Please enter number between 0 to 999")
Cube of n: 4019679
```

3] Read DOB and Salary

In [41]:

in rupees than perform data information for DOB to age and salary in dollars.

from datetime import datetime def calculate_age(birthdate):

```
today = datetime.now()
    birthdate = datetime.strptime(birthdate, "%Y-
    return today.year - birthdate.year - ((today.
def salary_in_dollars(salary_in_rupees, conversion)
    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: -1 years
Salary in USD: $606.06
4] 4. 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: 54

5] Print multiplication table of number n.

n = int(input("Enter a number: "))

```
for i in range(1, 11):
    print(f''(n) \times \{i\} = \{n*i\}'')
4566 \times 1 = 4566
4566 \times 2 = 9132
4566 \times 3 = 13698
4566 \times 4 = 18264
4566 \times 5 = 22830
4566 \times 6 = 27396
4566 \times 7 = 31962
4566 \times 8 = 36528
4566 \times 9 = 41094
```

 $4566 \times 10 = 45660$