To accept an object mass in kg and velocity in m/s and display its momentum

In [ ]:
```
x = int(input("Mass of object :"))
y = int(input("Velocity of object moving :"))
momentum = x*y
print("The momentum of object : ",momentum)
```

Write a python program for following condition

In [12]:
```
import math
n = int(input("Enter n value"))
if n>=0 and n<10:
    print("square of n :",n*n)
elif n>=10 and n<100:
    print("squareroot of n :",math.sqrt(n))
elif n>=100 and n<1000:
    print("cube of n :",n*n*n)
else:
    print("Enter number between 0 and 999")
```

```
Enter n value25
squareroot of n : 5.0
```

Read DOB and salary in Rs. and convert into age and salary in dollars

In [13]:
```
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) < (birthdat
e.month, birthdate.day))

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}")
```

```
Enter birthdate (YYYY-MM-DD): 2006-03-23
Enter salary in rupees: 60000
Age: 18 years
Salary in USD: $727.27
```

Print the reverse number of a given number

In [14]:
```
number = int(input("Enter a number: "))
reverse_number = int(str(number)[::-1])
print(f"Reversed number: {reverse_number}")
```

```
Enter a number: 23
Reversed number: 32
```

Print multiplication table of number n.

In [16]:
```
n = int(input("Enter a number: "))
for i in range(1, 11):
    print(f"{n} x {i} = {n*i}")
```

```
Enter a number: 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```