To accept an object Mass in Kg and Velocity in m/s and display it's Momentum. (e=mc,where m is mass and c is velocity)

```
In [2]: m=float(input("ENTER MASS: "))
    c=float(input("ENTER VELOCITY: "))
    e=m*c
    print("The Momentum of object is: ",e)
```

The Momentum of object is: 50.0

Write a python program for following conditions

1] If 'n' is a single digit number then print square of it. 2] If 'n' is a two digit number then print square root of it. 3] If 'n' is a three digit number then print cube of it.

1] If 'n' is a single digit number then print square of it.

Square of number: 25

2] If 'n' is a two digit number then print square root of it.

```
print("Cube of number: ",n*n*n)
else:
    print("Enter a number between 0 to 999")
```

Square root of number: 9.0

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

Cube of number: 42875000

Enter a number between 0 to 999

4] Read the birth date and salary in rupees of employees. Perform data transformation for birthdate to age and also salary which is in rupees to salary in dollars using functions.

```
In [20]: 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.mon

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

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```
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: \$24242.42

5] Print the reverse number of a given number

```
In [21]: number = int(input("Enter a number: "))
    reverse_number = int(str(number)[::-1])
    print(f"Reversed number: {reverse_number}")
```

Reversed number: 987654321

6] Print multiplication table of number n.