

1. Employee Salary Increment A company gives a 5% yearly increment to an employee's salary. Write a for loop to calculate the employee's salary for the next 10 years starting from ₹50,000.

```
sal = 50000
for i in range(1,11,1):
    sal += sal/100*5
print(f'salary after 10 years is = {sal}')
```

salary after 10 years is = 81444.73133887208

2. Class Attendance Percentage A student attended 18 out of 25 classes. Write a for loop to calculate and display the attendance percentage for each class attended (like running count).

```
tclasses = 25
aclasses = 18
for i in range(1, aclasses + 1):
    percentage = (i / tclasses) * 100
    print(f"After attending {i} classes: {percentage}%")
```

After attending 1 classes: 4.0

After attending 2 classes: 8.0

After attending 3 classes: 12.0

After attending 4 classes: 16.0

After attending 5 classes: 20.0

After attending 6 classes: 24.0

After attending 7 classes: 28.000000000000004

After attending 8 classes: 32.0

After attending 9 classes: 36.0

After attending 10 classes: 40.0

After attending 11 classes: 44.0

After attending 12 classes: 48.0

After attending 13 classes: 52.0

After attending 14 classes: 56.000000000000001

After attending 15 classes: 60.0

After attending 16 classes: 64.0

After attending 17 classes: 68.0

After attending 18 classes: 72.0

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3. Product Discount Prices A store applies a 10% discount on all products. Given a list of original prices [100, 250, 400, 560, 700], use a for loop to calculate and print the discounted prices.
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```
prices = [100, 250, 400, 560, 700]
```

```
for price in prices:
```

```
    disc = price / 100 * 10
```

```
    fprice = price - disc
```

```
    print(f"Original : {price}, Discounted: {fprice}")
```

Original : 100, Discounted: 90.0

Original : 250, Discounted: 225.0

Original : 400, Discounted: 360.0

Original : 560, Discounted: 504.0

Original : 700, Discounted: 630.0

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4. Monthly Savings Growth A person saves ₹1,000 every month. Write a for loop to calculate and display the total savings at the end of each month for 12 months.
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```
save=0
for i in range(1,13,1):
    save += 1000
    print(f'After {i} month you have saved {save}')
```

After 1 month you have saved 1000

After 2 month you have saved 2000

After 3 month you have saved 3000

After 4 month you have saved 4000

After 5 month you have saved 5000

After 6 month you have saved 6000

After 7 month you have saved 7000

After 8 month you have saved 8000

After 9 month you have saved 9000

After 10 month you have saved 10000

After 11 month you have saved 11000

After 12 month you have saved 12000

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5. Electricity Bill Calculation The electricity cost is ₹5 per unit. If a household consumes [120, 135, 150, 160, 145] units over 5 months, use a for loop to calculate the bill for each month.
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```
units = [120, 135, 150, 160, 145]
for i in range(0,len(units)):
    bill = units[i] * 5
    print(f'After {i+1} month your bill is : {bill}')
```

After 1 month your bill is : 600

After 2 month your bill is : 675

After 3 month your bill is : 750

After 4 month your bill is : 800

After 5 month your bill is : 725

6. Student Marks Percentage A student scored marks in 5 subjects: [78, 85, 90, 66, 72]. Use a for loop to calculate the percentage (out of 100) for each subject.
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```
subjects = [78, 85, 90, 66, 72]
for i in range(0,len(subjects)):
    perc = subjects[i]/100*100
    print(f'After {i+1} subject your percentage is : {perc}')
```

After 1 subject your percentage is : 78.0

After 2 subject your percentage is : 85.0

After 3 subject your percentage is : 90.0

After 4 subject your percentage is : 66.0

After 5 subject your percentage is : 72.0
