

Artificial Intelligence

Lab 03 Tasks

Name: Dua Amir

Sap ID: 47849

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Lab Instructor:

Ayesha Akram

Al Lab 03 Spring 2025

Task1.

Solution:

```
1    num = int(input('Enter any number: '))
2
3    if num < 0:
4         print(f'{num} is a negative number.')
5    elif num < 10:
6         print(f'{num} is one digit number.')
7    elif num < 100:
8         print(f'{num} is two digit number.')
9    elif num < 1000:
10         print(f'{num} is three digit number.')
11    else:
12         print(f'{num} is more than three digit number.')
Enter any number: 765
765 is three digit number.</pre>
```

Task2. Solution:

```
num = int(input('Enter any number: '))

if num %2 == 0:
    print(f'{num} is an even number.')

else:
    print(f'{num} is an odd number.')

Enter any number: 10
10 is an even number.
```

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Task3. Solution:

```
length = int(input('Enter length: '))
width = int(input('Enter width: '))

if length == width:
print(f'{length} and {width} are sides of a square.')
else:
print(f'{length} and {width} are sides of a rectangle.')

Enter length: 8
Enter width: 6
and 6 are sides of a rectangle.
```

Task4. Solution:

```
salary = int(input('Enter your salary: '))
years = int(input('Enter service years: '))

if years > 5:
    bonus = salary * 0.05
    print(f'your net bonus amount is {bonus}')
else:
    print('As your service years are not more than 5. So, you dont get any bonus')

Enter your salary: 70000
Enter service years: 6
your net bonus amount is 3500.0
```

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Task5. Solution:

```
1    year = int(input('Enter year: '))
2
3    if (year %4 == 0 and year %100 != 0) or (year %400 == 0):
4        print(f'{year} is a leap year.')
5    else:
6        print(f'{year} is not a leap year.')
Enter year: 2026
2026 is not a leap year.
```