



Artificial Intelligence

Lab 03 Tasks

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Task1

Solution:

```
num = int(input('Enter any number: ' ))
if num < 0:
    print(f'{num} is a negative number,')
elif num < 10:
    print(f'{num} is one digit number,')
elif num < 100:
    print(f'{num} is two digit number,')
elif num < 1000:
    print(f'{num} is three digit number,')
else:
    print(f'{num} is more than three digit number,')
```

```
Enter any number: 44
44 is two digit number,
```

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: 15
15 is an odd number,
```

Task3

Solution:

```
length = int(input('Enter any length: ' ))
breadth= int(input('Enter any breadth: ' ))


if length == breadth:
    print(f'{length} is square.')
else:
    print(f'{breadth} is an rectangle.')
```

```
Enter any length: 4
Enter any breadth: 4
4 is square.
```

Task4

Solution:

```
salary = int(input('Enter any salary: ' ))
service = int(input('Enter any year of service: ' ))


if service > 5:
    bonus = salary * 0.05
    print(f'{bonus} is your bonus amount.')
else:
     print(f'you are not eligible to get bonus')
```

```
Enter any salary: 5000
Enter any year of service: 7
250.0 is your bonus amount.
```

Task5

Solution:

```
year = int(input('Enter year: '))

if (year %4 == 0 and year %100 != 0) or (year %400 == 0):
    print('it is a leap year.')
else:
     print('it is not a leap year.')
```

```
Enter year: 2028
it is a leap year.
```