

## <u>Artificial Intelligence</u>

Lab 03 Tasks

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**Batch:** BSCS-6<sup>th</sup> semester

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## **Class Tasks**

1. Program to check whether the number is single digit, double digit or triple digit?

2. Write a program in which take a value from user and check whether the entered number is Odd or Even?

```
P Lab Task 2.py X

AI LAB3 > ♠ Lab Task 2.py > ...

1    number = int(input("Enter a number: "))

2    if number%2==0:

3         print("The number is even.")

4    else:

5         print("The number is odd.")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\AI Lab> python -u "c:\AI Lab\AI LAB3\Lab Task 2.py"

Enter a number: 6

The number is even.
PS C:\AI Lab>
```

3. Take values of length and breadth of a rectangle from user and check if it is square or not.

```
PLOB Task 3.py X

Al LAB3 > ♠ Lab Task 3.py > ...

1 length =(input("Enter the length of the rectangle: "))
2 breadth = (input("Enter the breadth of the rectangle: "))
3 if length == breadth:
4 | print("It is a square.")
5 else:
6 | print("It is not a square.")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\AI Lab> python -u "c:\AI Lab\AI LAB3\Lab Task 3.py"
Enter the length of the rectangle: 5
Enter the breadth of the rectangle: 5
It is a square.

PS C:\AI Lab>
```

4. A company decided to give bonus of 5% to employee if his/her year of service is more than 5 years. Ask user for their salary and year of service and print the net bonus amount.

```
Lab Task 4.py ×

Al LAB3 > ♣ Lab Task 4.py > ...

1 salary = int(input("Enter your salary: "))

2 years_of_service = int(input("Enter your years of service: "))

3 bonus =salary*0.05 if years_of_service>5 else 0

4 print(f"Your net bonus amount is: {bonus}")

5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

● PS C:\AI Lab> python -u "c:\AI Lab\AI LAB3\Lab Task 4.py"
Enter your salary: 567
Enter your years of service: 12
Your net bonus amount is: 28.35

♣ PS C:\AI Lab>
```

5. Write a program that checks if a given year is a leap year. A year is a leap year if:

It is divisible by 4, but not by 100, unless it is also divisible by 400