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**Subject: AI Lab**

**Batch: BSCS 6<sup>th</sup> Semester**

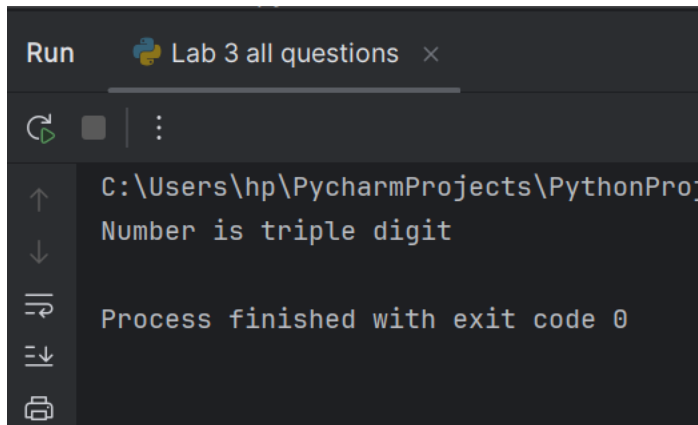
**Submitted by: Mam Ayesha Akram**

**Lab # 03**

## Task 1

```
# Question 1
str=564
if str >= 0 and str <= 9:
    print("Number is single digit")
elif str >= 10 and str < 100:
    print("Number is double digit")
elif str >= 100 and str <1000 :
    print("Number is triple digit")
else:
    print("More than three digits")
```

## Output



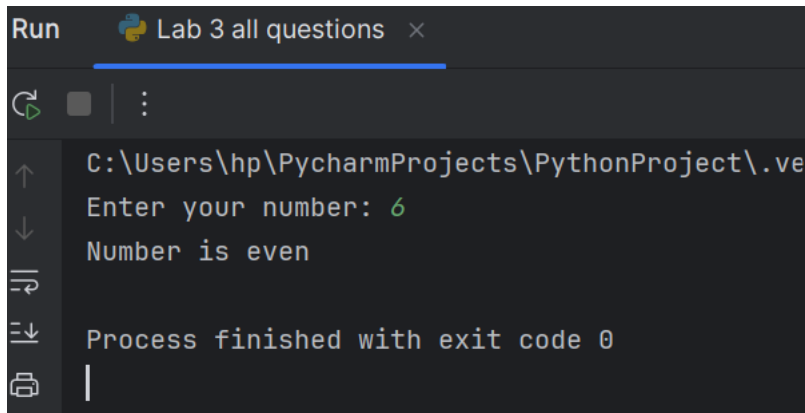
```
Run Lab 3 all questions x
C:\Users\hp\PycharmProjects\PythonPro
Number is triple digit
Process finished with exit code 0
```

## Task 2

```
# # Question 2
num = int(input("Enter your number: "))
if num%2==0:
    print("Number is even")
else :
    print("Number is odd")
```

## Output

## Artificial Intelligence Lab # 03

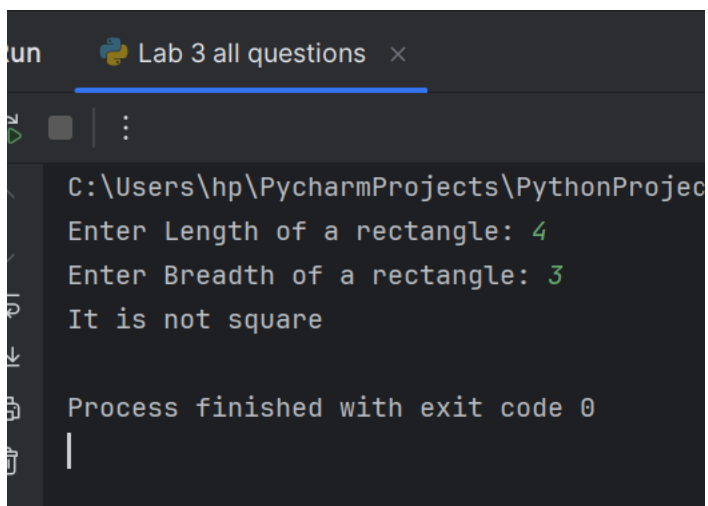


```
Run Lab 3 all questions x
C:\Users\hp\PycharmProjects\PythonProject\.venv
Enter your number: 6
Number is even
Process finished with exit code 0
```

## Task 3

```
# # Question 3
num1 = int(input("Enter Length of a rectangle: "))
num2 = int(input("Enter Breadth of a rectangle: "))
if num1 == num2:
    print("It is square")
else:
    print("It is not square")
```

## Output



```
Run Lab 3 all questions x
C:\Users\hp\PycharmProjects\PythonProject
Enter Length of a rectangle: 4
Enter Breadth of a rectangle: 3
It is not square
Process finished with exit code 0
```

## Task 4

## Artificial Intelligence Lab # 03

```
# # Question 4
num1 = int(input("Enter your salary per month: "))
num2 = int(input("Enter your service years: "))

if num2 > 5:
    bonus=num1*0.05
    print(f"your bonus is ", bonus)
else:
    print("You are not eligible")
```

## Output

```
Lab 3 all questions x
C:\Users\hp\PycharmProjects\PythonProject\
Enter your salary per month: 3000
Enter your service years: 5
You are not eligible

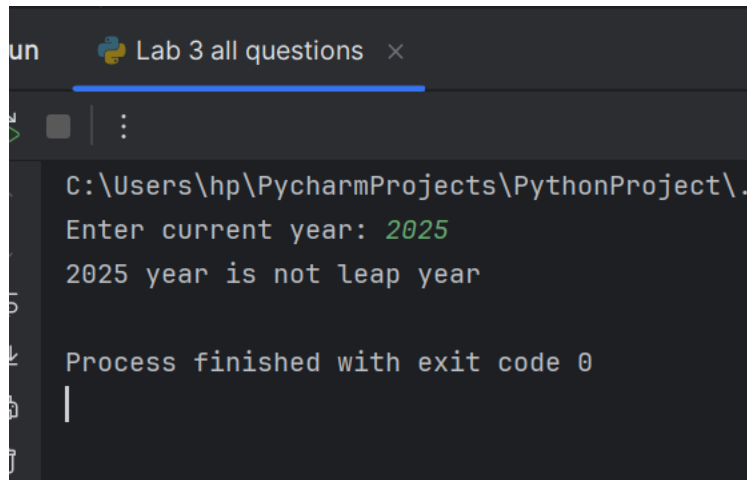
Process finished with exit code 0
```

## Task 5

```
# # Question 5
num1 = int(input("Enter current year: "))
if (num1%4==0 and num1%100 != 0) or (num1%400 == 0):
    print(f"{num1} year is leap year")
else:
    print(f"{num1} year is not leap year")
```

## Output

## Artificial Intelligence Lab # 03



The screenshot shows a terminal window titled "Lab 3 all questions" with a Python icon. The terminal displays the following text:

```
C:\Users\hp\PycharmProjects\PythonProject\.  
Enter current year: 2025  
2025 year is not leap year  
  
Process finished with exit code 0  
|
```

The input "2025" is highlighted in green, and the output "2025 year is not leap year" is also in green. The terminal shows the program has finished execution with exit code 0.