RIPHAH INTERNATIONAL UNIVERSITY, ISLAMABAD



Lab#3 Bachelors of Computer Science — 6th Semester Course: Artificial Intelligence

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Task#1: Program to check whether the number is single digit, double digit or triple digit?

```
"C:\Users\FAROOQ HASSAN\AppDa
Enter a number: 77
Double digit
```

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

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

if number % 2 == 0:
    print("Even")

else:
    print("Odd")
```

```
"C:\Users\FAROOQ HASSAN\App
Enter a number: 6
Even
```

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

```
length = float(input("Enter the length: "))

breadth = float(input("Enter the breadth: "))

if length == breadth:
    print("It is a square.")

else:
    print("It is not a square.")
```

Task#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.

```
1    salary = float(input("Enter your salary: "))
2    years = int(input("Enter years of service: "))
3
4    if years > 5:
        bonus = salary * 0.05
6        print("Your bonus is:", bonus)
7    else:
8        print("No bonus for less than 5 years of service.")
9
```

Task#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.

```
year = int(input("Enter a year: "))

if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
    print(year, "is a leap year.")

else:
    print(year, "is not a leap year.")
```

```
"C:\Users\FAROOQ HASSAN\AppData
Enter a year: 2004
2004 is a leap year.
```