# IF STATEMENT

**#Author - Soumitra Das Date - 24/01/2023**

**#1. 60% of attendance is required to appear in the final semester. Input number of classes conducted by a teacher and number of classes attended by a student. Based on the input information, print if that student is eligible to appear in the final semester or not.**

```
att=int(input("Enter a percentage of attendence : "))
if att>=60:
    print("Student is eligible to appear in the final semester.")
else:
    print("Student is not eligible to appear in the final semester.")
```

**OUTPUT:**

```
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\condition1.py"
Enter a percentage of attendence : 100
Student is eligible to appear in the final semester.
```

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**#2. Write a program (WAP) to print the largest of three numbers.**

```
n1=int(input("Enter a first number :"))
n2=int(input("Enter a second number :"))
n3=int(input("Enter a third number :"))
if n1>n2:
    if n1>n3:
        print("Large number is {}".format(n1))
    else:
        print("Large number is {}".format(n3))
```

```
else:
    if n2>n3:
        print("Large number is {}".format(n2))
    else:
        print("Large number is {}".format(n3))
```

**OUTPUT:**

```
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\largethree.py"
Enter a first number :5
Enter a second number :6
Enter a third number :7
Large number is 7
```

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**#3. WAP to check whether a year is leap year or not.**

```
y=int(input("Enter a year : "))
if((y%4==0 and y%100!=0) or y%400==0):
    print("The given year is a leap year.")
else:
    print("The given year is not a leap year.")
```

**OUTPUT:**

```
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\leap.py"
Enter a year : 1700
The given year is not a leap year.
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\leap.py"
Enter a year : 1600
The given year is a leap year.
```

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**#4. WAP to input basic salary of an employee and calculate its Gross salary (Basic Salary + HRA + DA) according to following:**

**# Basic Salary less than or equal 10000 : HRA = 20%, DA = 80%**

**# Basic Salary less than or equal 20000 : HRA = 25%, DA = 90%**

**# Basic Salary greater than 20000 : HRA = 30%, DA = 95%**

```
sa=int(input("Enter your salary : "))
if sa<=10000:
    hra=sa*(20/100)
    da=sa*(80/100)
    Gsa=sa+hra+da
    print("The Gross salary is {}".format(Gsa))
elif sa<=20000:
    hra=sa*(25/100)
    da=sa*(90/100)
    Gsa=sa+hra+da
    print("The Gross salary is {}".format(Gsa))
else:
    hra=sa*(30/100)
    da=sa*(95/100)
    Gsa=sa+hra+da
    print("The Gross salary is {}".format(Gsa))
```

**OUTPUT:**

```
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\salary.py"
Enter your salary : 20000
```

The Gross salary is 43000.0

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**#5. WAP to input electricity unit charges and calculate total electricity bill according to the given condition:**

**# For first 50 units Rs. 0.50/unit**

**# For next 100 units Rs. 0.75/unit**

**# For next 100 units Rs. 1.20/unit**

**# For unit above 250 Rs. 1.50/unit**

**# An additional surcharge of 20% is added to the bill**

```
bill=int(input("Enter electic bill :"))
if bill<=50:
   bill=bill*.50
elif bill<=150:
   bill=50*.5+(bill-50)*.75
elif bill<=250:
   bill=50*.5+100*.75+(bill-150)*1.20
else:
   bill=50*.5+100*.75+100*1.20+(bill-250)*1.50
addi=bill*.2
tbill=bill+addi
print("Total electricity bill is {}".format(tbill))
```

**OUTPUT:**

```
PS C:\Users\SOUMITRA> python -u "d:\Python\IF-ELSE\electricity.py"
Enter electic bill :150
Total electricity bill is 120.0
```