IF STATEMENT

#Author - Shiuli Maji 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\SHIULI> python -u "d:\Python\IF-ELSE\condition1.py"
Enter a percentage of attendence : 100
Student is eligible to appear in the final semester.
```

#Author - Shiuli Maji Date - 24/01/2023 #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\SHIULI> 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
```

#Author - Shiuli Maji Date - 24/01/2023 #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\SHIULI> python -u "d:\Python\IF-ELSE\leap.py"
Enter a year : 1700
The given year is not a leap year.
PS C:\Users\SHIULI> 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\SHIULI> 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\SHIULI> python -u "d:\Python\IF-ELSE\electricity.py"
Enter electic bill :150
Total electricity bill is 120.0
```