

Assignment 1

March 8, 2023

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[14]: # Q01. Write a Python program to check whether a given number is even or odd

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

print ("{0} is Even".format(num)) if (num % 2) == 0 else print ("{0} is Odd".
↪format(num))
```

Enter a number: 6969
6969 is Odd

```
[16]: # Q02. Write a Python program to check whether a given number is positive or
↪negative

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

if (num > 0):
    print ("{0} is Positive".format(num))
elif (num == 0):
    print ("{0} is Absolute Zero".format(num))
else:
    print ("{0} is Negative".format(num))
```

Enter a number: -696969
-696969 is Negative

```
[17]: # Q03. Write a Python program to find whether a given year is a leap year or not

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

if (year % 400 == 0) and (year % 100 == 0):
    print("{0} is a leap year".format(year))
elif (year % 4 ==0) and (year % 100 != 0):
    print("{0} is a leap year".format(year))
else:
    print("{0} is not a leap year".format(year))
```

Enter a year: 2400
2400 is a leap year

[21]: # Q04. Write a Python program to find the largest of three numbers.

```
num1 = int (input ("Enter the 1st Number: "))
num2 = int (input ("Enter the 2nd Number: "))
num3 = int (input ("Enter the 3rd Number: "))

if (num1 > num2 and num1 > num3):
    print ("{0} is Largest".format(num1))
elif (num2 > num1 and num2 > num3):
    print ("{0} is Largest".format(num2))
else:
    print ("{0} is Largest".format(num3))
```

Enter the 1st Number: 100
Enter the 2nd Number: -97
Enter the 3rd Number: 25
100 is Largest

[28]: # Q05. Write a Python program to find the eligibility of admission for a
↳ professional course based on the following criteria
#Eligibility Criteria : Marks in Maths >=65 and Marks in Phy >=55 and Marks in
↳ Chem>=50 and Total in all three subject >=190 or Total in Maths and Physics
↳ >=140

```
math = int (input ("Enter marks in Mathematics: "))
physics = int (input ("Enter marks in Physics: "))
chem = int (input ("Enter marks in Chemistry: "))

total = (math + physics + chem)
total_math_phy = (math + physics)

if (math >= 65 and physics >= 55 and chem >= 50) and (total >= 190 or  
↳ total_math_phy >= 140):
    print ("You are eligible to admission")
else:
    print ("You are not eligible to admission")
```

Enter marks in Mathematics: 58
Enter marks in Physics: 96
Enter marks in Chemistry: 76
You are not eligible to admission

[26]: # Q06. Write a Python program to read roll no, name and marks of three subjects
↳ and calculate the total, percentage and division.

```
roll_no = int (input ("Enter your roll number: "))
name = str (input ("Enter your name: "))
```

```

math = int (input ("Enter marks in Mathematics: "))
comp_sc = int (input ("Enter marks in Computer Science: "))
geo = int (input ("Enter marks in Geography: "))

total = math + comp_sc + geo
percentage = total / 3

print ("Roll Number: {0}".format(roll_no))
print ("Name: {0}".format(name))
print ("Marks in Mathematics: {0}".format(math))
print ("Marks in Computer Science: {0}".format(comp_sc))
print ("Marks in Geography: {0}".format(geo))
print ("Total Marks: {0}".format(total))
print ("Percentage: {0}".format(percentage))

if (percentage >= 80):
    print ("Division: First")
elif (percentage >= 50 and percentage <=79):
    print ("Division: Second")
else:
    print ("Division: Thrid")

```

```

Enter your roll number: 100225570
Enter your name: Suman Mondal
Enter marks in Mathematics: 76
Enter marks in Computer Science: 80
Enter marks in Geography: 75
Roll Number: 100225570
Name: Suman Mondal
Marks in Mathematics: 76
Marks in Computer Science: 80
Marks in Geography: 75
Total Marks: 231
Percentage: 77.0
Division: Second

```

[27]: # Q07: Write a Python program to read temperature in centigrade and display a suitable message according to temperature state below :

```

    # Temp < 0 then Freezing weather
    # Temp 0-10 then Very Cold weather
    # Temp 10-20 then Cold weather
    # Temp 20-30 then Normal in Temp
    # Temp 30-40 then Its Hot
    # Temp >=40 then Its Very Hot

temp = int (input ("Enter temperature in celcius: "))

```

```

if (temp < 0):
    print ("Freezing Weather")
if (temp >= 0 and temp < 10):
    print ("Very Cold Weather")
if (temp >= 10 and temp < 20):
    print ("Cold Weather")
if (temp >= 20 and temp < 30):
    print ("Normal Weather")
if (temp >= 30 and temp < 40):
    print ("It's Hot :)")
if (temp >= 40):
    print ("Very Hot")

```

Enter temperature in celcius: 35
It's Hot :)

[30]: *# Q08: Write a Python program to calculate profit and loss on a transaction*

```

buy = int (input ("Enter buying amount: "))
sell = int (input ("Enter selling amount: "))

diff = sell - buy

if (sell > buy):
    print ("You booked profit amount: {}".format(diff))
else:
    print ("You booked loss amount: {}".format(diff))

```

Enter buying amount: 600
Enter selling amount: 480
You booked loss amount: -120

[]: