Suman_Mondal_Assignment_1

March 9, 2023

[14]:
```python
# 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]:
```python
# 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 Positve".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]:
```python
# 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: "))
```

```python
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]:
```python
# 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: "))
```

```python
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]:
```python
# 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: {0}".format(diff))
else:
    print ("You booked loss amount: {0}".format(diff))
```

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

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