Python_2

April 7, 2023

```
Operator
 [1]: \# Operator are the symbol that is used to perform various operation based on
       ⇔the value of the operands.
 [2]: \# +, -, *, /, //, \% are the example of arithematic operators.
 [3]: 1+1
 [3]: 2
 [4]: print(1+1)
     2
 [5]: print(1-1)
     0
 [6]: print(1*1)
     1
 [7]: print(1/1)
     1.0
 [8]: print(1//1)
     1
 [9]: # // is used to get integer value of the division of two numbers.
[10]: print(2**2)
     4
[11]: # ** is used to raised the second number over first number.
```

```
[12]: print(2*2+2/2-2)
     3.0
[13]: print(4//3)
     1
[14]: # this happen because // only return integer values.
[15]: print(11%3)
     2
[16]: # % is used to return remainder values.
[17]: print("Hello" + "Ajeet")
     HelloAjeet
[18]: print("hello", "Ajeet")
     hello Ajeet
[21]: print(4*"\nAjeet Kumar ")
     Ajeet Kumar
     Ajeet Kumar
     Ajeet Kumar
     Ajeet Kumar
[22]: \# \  is a new line character that is used to return the value in multiple line.
     Input Function
[23]: # input() is a inbuilt python function that is used to take the value from user.
      # input() function always takes the value as string data type, otherwise you__
       ⇔have to specifies the data type of the variable.
[25]: print('What is your name:')
     What is your name:
[26]: print(input("What is your name:"))
     What is your name: Ajeet Kumar
     Ajeet Kumar
```

```
[27]: name= print(input("What is Your name:"))
     What is Your name: Ajeet Kumar Sahu
     Ajeet Kumar Sahu
[33]: name= print("Hello",input("What is Your name:"))
     What is Your name: Ajeet
     Hello Ajeet
[35]: name=input("What is your name:")
      print("Hello" ,name)
     What is your name: Ajeet
     Hello Ajeet
[38]: FName= input("What is your first name:")
      LName= input("What is your last name:")
      print("Your Full name is",FName,LName)
     What is your first name: Ajeet
     What is your last name: Kumar
     Your Full name is Ajeet Kumar
     0.0.1 Problem
       1. Write a program that uses input to prompt a user for their name and then prints to the
          console the number of characters in the inputed name.
     Example:
     Input: "Elshad" Output: 6
[39]: YourName=input("What is Your name:")
      print(len(YourName))
     What is Your name: Ajeet Kumar
     11
     Type Error and Type conversions
[40]: # len() is the inbuilt function that is used to count the number of character_
       ⇒in the value of the given variable.
[41]: print(len("Ajeet Sahu"))
```

```
[42]: print(len("1234"))
[45]: name=input("What is your current age:")
     What is your current age: 19
[47]: print(type(name))
     <class 'str'>
[49]: print('Your age after 5 year will be',5+int(name))
     Your age after 5 year will be 24
[50]: a=123
      print(type(a))
     <class 'int'>
[51]: a=float(a)
[52]: print(type(a))
     <class 'float'>
     Comment
[61]: # It is the statement that is used to increase the understandability of code.
      # This is the part of code that is not going to execute by interpreter.
[54]: # '#' is used for single line comment.
[57]: # '''
            This is used for multiline comment.'''
[60]: # print("Hello World")
     Variable naming
[64]: user_name=input("What is your birth place")
     What is your birth place Rosera
[65]: name1="Book"
     print(name1)
     Book
```

then the output should be 2 * 52 = 104, because we have 52 weeks in 1 year. Example Input 2 Example Output 2*52 = 104There are 104 weeks in 2 years [74]: | year= int(input("Enter Number of year:")) TotalWeek=52* year print("There are "+str(TotalWeek)+" weeks in "+str(year)+"") Enter Number of year: 5 There are 260 weeks in 5 f-String [75]: year=int(input("Enter Number of year:")) TotalWeek=52* year print(f"There are {TotalWeek} weeks in {year} years.") Enter Number of year: 5 There are 260 weeks in 5 years. [76]: # f-string is used to avoid the repetitive type conversion. **Round Function** [78]: # Without round function [77]: print(10/3) 3.333333333333335 [79]: # With Round function [81]: print(round(10/3)) 3 [82]: print(round(10/3,2)) 3.33 [84]: print(round(23354.453452342,2)) 23354.45

2. Write a program that converts number of years to the weeks. if the input was 2,