**Similar features R & Python :**

**Python and R both are case sensitive lang.**

**Python and R both are Dynamic Typed Prog. Lang.**

**Difference between Python and R – Programming : -**

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| **Python Programming** | **R - Programming** |
| **If value assign in python then use syntax :**  **a=5** | **If value assign in R-prog .then use syntax :**  **x <- value**  **x <<- value**  **value -> x**  **value ->> x**  **x = value**  **for eg.**  **a=5**  **or**  **a<-5**  **or**  **a<<-5**  **or**  **5->a**  **Or**  **5->>a** |
| **print() 🡺to display output on output screen.**  **print(“msg”)**  **or**  **print(var)**  **or**  **print(“msg “ ,var)**  **print(“My name is {}”.**  **format(“Meena Pandey”))**  **print( “I am {} years old “.format(28))** | **print() 🡺to display output on output screen**  **print(“message”)**  **print(variable)**  **print(paste(“msg”,var))**  **or**  **print(paste(“msg”,var,sep=”:”))**  **or**  **print(sprintf(“My name is %s”,”Meena pandey”))**  **or**  **print(sprintf(“I am %i years old “,28))**  **or**  **print(sprint(“%s has max speed of %f”,”Ferrari”,217.5))**  **o/p**  **“Ferrari has max speed of 217.50”** |
| **input() 🡺it is used to accept string type data from user through keyboard**  **syntax :**  **var=input(“msg”)**  **for eg.**  **a=input(“enter number a”)**  **suppose give input 4**  **then stored a=”4” means string type means no any arithmetic and logical operation perform on data**  **suppose to perform arithmetic operation then use type casting :**  **a=int(a)** | **readline()🡺it is used to accept string typdata from user through keyboard**  **syntax :**  **var=readline(prompt=”msg”))**  **for eg.**  **a=readline(prompt=”enter number a”))**  **suppose give input 4**  **then stored a=”4” means string type means no any arithmetic and logical operation perform on data**  **suppose to perform arithmetic operation then use type casting :**  **a=as.integer(a)** |
| **For eg. Write a program to sum of 2 nos. in python then**  **a=input(“enter number a”)**  **b=input(“enter number b”)**  **a=int(a)**  **b=int(b)**  **c=a+b**  **print(“sum=”,c)**  **run program F5** | **For eg. Write a program to sum of 2 nos. in R-prog. then**  **a=readline(prompt=“enter number a”)**  **b= readline(prompt=“enter number b”)**  **a=as.integer(a)**  **b=as.integer(b)**  **c=a+b**  **print(paste(“sum”,c,sep=”:”))**  **run program 🡺ctrl+enter** |
| **type() 🡺to display the datatype of variable**  **for eg.**  **a=5**  **type(a)**  **show integer**  **a=”meena”**  **type(a)**  **show character** | **class() 🡺to display the datatype of variable**  **for eg.**  **a=5**  **class(a)**  **show numeric**  **a=”meena”**  **class(a)**  **show character** |
| **Extension of python file .py** | **Extension of R-programming**  **.r** |