
Assignment No. 01		
Name of Student: Rupesh Ramesh Desai	Roll No.:	
Class: B.Sc III	Date: / /	
Signature:		
******************	*********	
Q. Python program to add two numbers.		
Program:		
num1=20 num2=100 sum=num1+num2 print("Sum of {0} and {1} is {2}".format(num1,num2,sum))		
**************************************	*******	
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe" e:/TRY.PY/py/A1.py Sum of 20 and 100 is 120		
****************	*********	

Assignment No. 02	
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
***************	************
Q. Python program for factorial of a number.	
Program:	
num=int(input("Enter a number: ")) factorial=1 if num<0: print("factorial does not exist for negative numbers' elif num==0: print("the factorial of 0 is 1") else: for i in range(1,num + 1): factorial=factorial*i print("The Factorial of",num,"is",factorial)	")
**************************************	***********
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/py Enter a number: 30 The Factorial of 30 is 26525285981219105863630848	80000000

Assignment 1	No. 03
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
****************	*************
Q. Python program for simple interest.	
Program:	
<pre>def simple_interest(p,t,r): print("The principal is",p) print("The time period is",t) print("The rate of interest is",r)</pre>	
si=(p*t*r)/100	
print("The simple interest is",si)	
return si	
simple_interest(12,24,8)	
*********OUTPUT	<u></u>
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310 The principal is 12 The time period is 24 The rate of interest is 8 The simple interest is 23.04)/python.exe" e:/TRY.PY/py/A3.py
************	***********

Assignment No. 04	
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
*************	***********
Q. Python program to check if a string is palindre	ome or not.
Program:	
<pre>def isPalindrome(s): return s==s[::-1]</pre>	
s="malayalam" ans=isPalindrome(s)	
if ans: print("Yes") else:	
print("No")	
**************************************	*************
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/JYes	python.exe" e:/TRY.PY/py/A4.py
*************	***********

Assignment No. 05		
Name of Student: Rupesh Ramesh Desai	Roll No.:	
Class: B.Sc III	Date: / /	
Signature:		
**************	************	
Q. Python program to reverse words in a given st	tring in python.	
Program:		
def reverse(string):		
string=string[::-1]		
return string		
s="GeeksforGeeks"		
print("The original string is:",end="")		
print(s)		
print("The reversed string(using extended slice syntax)is	:",end="")	
print(reverse(s))		
**************************************	***********	
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/ The original string is:GeeksforGeeks The reversed string(using extended slice syntax)is:sl		
**************	***********	

Assignment No. 06		
Name of Student: Rupesh Ramesh Desai	Roll No.:	
Class: B.Sc III	Date: / /	
Signature:		
****************	********	
Q. Python program to find out ways to remove i'th character from string in python.		
Program:		
test_str="GeeksforGeeks" new_str=test_str[:2]+test_str[3:] print("The string after removal of i th character:"+new_str)		

PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe" e:/TRY.PY/py/a6.PY The string after removal of i th character:GeksforGeeks		

Assignment No. 07		
Name of Student: Rupesh Ramesh Desai	Roll No.:	
Class: B.Sc III	Date: / /	
Signature:		
****************	*********	
Q. Python program to check if a substring is present in a gi	ven string.	
Program:		
MyString1="Mom saysRupS You need to work on Yourself"		
if "need" in MyString1: print("Yes! it is present in the string")		
else: print("No! it is not present")		
**************************************	********	
PS E:\TRY.PY\RupS> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe Yes! it is present in the string	" e:/TRY.PY/RupS/A7.py	
******************	*********	

Assignment No. 08	
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
**************	************
Q. Python program to interchange first and last e	elements in a list.
Program:	
def swaplist(newlist): size=len(newlist)	
temp=newlist[0] newlist[0]=newlist[size-1] newlist[size-1] return newlist newlist=[12,35,9,56,24]	
print(swaplist(newlist))	
**************************************	***********
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/] [24, 35, 9, 56, 24]	python.exe" e:/TRY.PY/py/A8.py
**************	***********

Assignment 1	No. 09
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
**************	*************
Q. Python program to swap two elements in a lis	st.
Program:	
fruits=["mango","jackfruit","jamun"]	
<pre>print("list of fruits before swap:") print(fruits)</pre>	
fruits[0],fruits[2]=fruits[2],fruits[0]	
<pre>print("\n list of fruits after swap:") print(fruits)</pre>	
*********OUTPUT	
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310 list of fruits before swap: ['mango', 'jackfruit', 'jamun']	/python.exe" e:/TRY.PY/py/A9.py
list of fruits after swap: ['jamun', 'jackfruit', 'mango']	
***************	************

Assignment No. 10	
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
************	***********
Q. Python program to find out different ways to c	lear a list in python.
Program:	
list=[1,2,3,4] print("list before clear:",list)	
list.clear() print("list after clear:",list)	
**************************************	***********
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/p list before clear: [1, 2, 3, 4] list after clear: [] PS E:\TRY.PY>	oython.exe" e:/TRY.PY/py/A10.py
*************	***********

Assignment No.11

Name of Student: Rupesh Ramesh Desai Roll No.:

Class: B.Sc III Date: / /

Signature:

Q. Python program to reversing a List.

Program:

```
def list reverse(arr,size):
if(size==1):
  return arr
elif(size==2):
  arr[0],arr[1]=arr[1],arr[0]
  return ArithmeticError
else:
  i=0
while(i>size//2):
     arr[i],arr[size-i-1]=arr[size-i-1],arr[i]
if((i!=i+1 \text{ and size-i-1}!=size-i-2)and(i!=size-i-2 \text{ and size-i-1}!=i+1)):
     arr[i+1], arr[size-i-2] = arr[size-i-2], arr[i+1]
  i+=2
return arr
     arr=[1,2,3,4,5]
  size=5
  print("original list:",arr)
  print("Reversed list:",list reverse(arr,size))
```

```
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe" e:/TRY.PY/py/A11.py original list: [1, 2, 3, 4, 5] Reversed list: [5, 4, 3, 2, 1] ubuntu@ubuntu-desktop:~$
```

Assignment N	o. 12
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
*****************	**************
Q. Python program for Linear Search.	
Program:	
def linear_search(list1,n,key): for i in range(0,n): if(list1[i]==key): return i return-1 list1=[1,3,5,4,7,9] key=7	
n=len(list1) res=linear_search(list1,n,key) if(res==-1): print("Element not found") else: print("Element found at index:",res)	
*********OUTPUT*	************
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/p Element found at index: 4	python.exe" e:/TRY.PY/py/A12.py
***************	***********

Assignment No. 13 Name of Student: Rupesh Ramesh Desai Roll No.: Class: B.Sc III **Date:** / / **Signature:** Q. Python program for Insertion sort. **Program:** def insertion_sort(list1): for i in range(1,len(list1)): value=list1[i] j=i-1 while j>=0 and value<list1[j]: list1[j+1]=list1[j] j-=1 list1[j+1]=value return list1 list1=[10,5,13,8,2] print("the unsorted list is:",list1) print("the sorted list is:",insertion sort(list1)) PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe" e:/TRY.PY/py/A13.py the unsorted list is: [10, 5, 13, 8, 2] the sorted list is: [2, 5, 8, 10, 13]

***********	*********	
Assignment No. 14		
Name of Student: Rupesh Ramesh Desai	Roll No.:	
Class: B.Sc III	Date: / /	
Signature:		
*************	**********	
Q. Python program to demonstrated use of dict	ionaries by key or value.	
Program:		
dict={'Name':'RupS','Age':'21','Class':'T.Y,'} print("dict['Name']:",dict['Name']) print("dict['Age']:",dict['Age'])		
**************************************	T*********	
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python31 dict['Name']: RupS dict['Age']: 21	0/python.exe" e:/TRY.PY/py/A14.py	
••••••••••••••••••••••••••••••••••••••	# # # # # # # # # # # # # # # # # # #	

Assignment No. 15	
Name of Student: Rupesh Ramesh Desai	Roll No.:
Class: B.Sc III	Date: / /
Signature:	
*****************	**********
Q. Python program to remove a key from dictionary.	
Program:	
dict={1:"a",2:"b"}	
print(dict)	
<pre>value=dict.pop(1) print(dict) print(value)</pre>	
**************************************	********
PS E:\TRY.PY> & "C:/Users/Rupesh Desai/AppData/Local/Programs/Python/Python310/python.exe {1: 'a', 2: 'b'} {2: 'b'} A	" e:/TRY.PY/py/A15.py
****************	**********
