

GLS UNIVERSITY
Msc.IT PROGRAMME [SEMESTER-I]
SUBJECT: OBJECT ORIENTED PROGRAMMING FOR PYTHON
LABORATORY

TASK - 5

DATE: 17 AUGUST 2023

TASK DEADLINE: 24 AUGUST 2023

1. Write a python program for performing following operations and display results after each operation:
 - (i) Create dictionary with details of 5 students : Rollno, name, semester, course, percentage.
 - (ii) Update semester of student3 to 2.
 - (iii) Delete the data of 4th student.
 - (iv) Copy this dictionary to dict2
 - (v) Display the length of both the dictionaries
2. Create a dictionary with key as country and their capitals as values with 5 countries spain, france, germany, norway. Perform the following operations on this dictionary.
 - (i) Print the capital of germany
 - (ii) Remove norway and its capital from dictionary
 - (iii) Take one country from user and print the index if it is present else print it is not present in the dictionary.
 - (iv) Add India with capital in the dictionary
3. Write a menu driven program to implement the stack with operations push,pop and display.
4. Write a menu driven program to implement the queue with operations insertion , deletion and display.
5. Write a python program to demonstrate the concept of default arguments. Take the employee data from user: name, department and basic_salary. Write a function to calculate total salary of the employee where total salary is sum of basic salary, DA and HRA. DA is 10% of basic salary and HRA is 15% of basic salary. If basic salary is missing, take default argument of basic salary as Rs. 9000.
6. Take two values of feet and inches from user. Create a function to add the values of feet with feet and inch with inch. Display the valid total result. (Inch should not be more than 11).
7. Write a function to find whether the number is armstrong number or not.
8. Write a function to add the values of two list and store that in third list and display the result.
9. Write a recursive function taking one integer argument, if argument is zero return zero else return sum of all the predecessor of that argument.
10. Write a recursive function for printing the fibonacci series. The argument n will be passed to the function, where n is number of terms in the series.