PYTHON

Assignment

1. **Write a Python script that utilizes the len(), max(), min(), and sum() functions on a list of integers. Explain what each function does.**

2. **Define a function named greet() that takes a string as an argument and prints a greeting message using that string. Call this function with different names.**

3. **Create a function named square() that takes an integer as an argument, calculates its square, and returns the result. Print the returned value.**

4. **Write a function describe_pet() that takes two arguments: the name of a pet and its type. Set the default type to 'dog'. Test this function by passing different arguments.**

5. **Create a function build_profile() that takes in first and last names as well as an arbitrary number of keyword arguments (**kwargs). Return a dictionary representing the user's profile.**

6. **Write a function sum_all() that takes any number of numerical arguments and returns their sum. Test it with different numbers of arguments.**

7. **Define a function modify_list() that takes a list and appends a new element to it. Call this function and print the list before and after the modification.**

□ www.achieversit.com □ info@achieversit.com   □ +91 8151000080 / 8151000090
HeadOffice: □   #1, 4th Main Rd, Extension, Ayyappa Layout, Chandra Layout, Marathahalli, Bengaluru, Karnataka 560037
Branches: □ **Bangalore** - BTM | Marathahalli, **Hyderabad** - KPHB Branch 1 | Branch 2 "
Education is the most powerful weapon which you can use to **change the world** "

8. **Write a function calculate() that takes two numbers and returns their sum, difference, and product. Call this function and print the results.**

9. **Create a function order_pizza() that takes arguments for crust type, size, and a list of toppings. Ensure that the crust type and size are passed as positional arguments and toppings as a keyword argument.**

10. **Write a function describe_person() that takes two arguments: name and age, where age has a default value of None. If age is provided, print the name and age; otherwise, print only the name.**