Q1. What is the purpose of \*\* operator in python?

Q2. Give the difference between break and continue statement in python.

Q3. Which are the identity operators in python?

Q4. Given a = {2,1,4,6,8,9,9,2,10,5,3,-5} and b = {4,3,4,5,10,11,2,-1,4}

* Find the elements common to both a and b
* Find the elements common to both a and b and update set b using this.
* Find the minimum and maximum value of both the sets a and b.

Q5. Create a dictionary called ‘**age\_data**’ using the following data

|  |  |
| --- | --- |
| **Keys** | **Values** |
| Tim | 23 |
| Charlie | 22 |
| Sarah | 18 |
| Jessy | 23 |
| Max | 25 |

* Add a new key-value pair to the dictionary Melvin-24
* Get the item with key Sarah
* Remove the item with key ‘Tim’
* Increase the age of Max by 3

Q6. Consider the list [‘t’,’e’,’s’,’q’,’f’,’d’,’e’,’t’,’e’,’r’,’k’,’t’]

* Find the length of the list.
* Find the index of the item ‘d’
* Sort the list in alphabetic order.
* Remove the item ‘q’ from the list.

Q7. Create a set {‘blue’, ‘green’, ‘red’, ‘black’}

* Display the elements of the set one by one using looping
* Check whether the element ‘white’ is present in the set or not
* Add the element ‘yellow’ to the set.
* Add elements {1,2,3} to the set
* Remove the element ‘blue’ from the list
* Create a frozenset using this set

Q8. ‘Python supports a variety of string operations’

* Check whether the above string is a title or not
* Convert the entire string into uppercase
* Find the number of times the letter ‘s’ occurs in the string
* Split the string at the character ‘t’

Q9. Write a python program to find the sum of all numbers between 1 and 30 that are multiples of 3 and 5.

Q10. Write a python program that receives an age from the user and prints whether the person can vote in an election or not.

Q11. Create a for loop that prompts the user to input a hobby 3 times and create a list using those values.