

Q.3. Answer the following. (Solve any 5) (10)

1. Describe Dictionary in Python.
2. How to give Comments in Python?
3. What is the purpose of the "pass" statement in Python?
4. How to import modules and packages?
5. Explain Scope of variables in Python.
6. Write a python code to print length of a string.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Differentiate between a module and a package in Python?
2. Explain Tuples in python.
3. Differentiate between mutable and immutable data types?
4. Explain Classes and objects in Python.
5. Explain exceptions in python.
6. Write a python code to print multiplication of all elements in the given list.
7. Write a python code to create HRDatabase.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Write a python program to add the contents of abc.txt at the end of xyz.txt file with proper exception
2. Write a Python program that defines a function validate_password(password) that checks if a password meets the following criteria:
 1. Minimum length of 8 characters
 2. At least one uppercase letter
 3. At least one lowercase letter
 4. At least one number
 5. At least one special character

The function should return True if the password meets all criteria and False otherwise.
