1. What are identity operators? And explain each one?
2. What are the membership operators? And explain each one?
3. What is the difference between division and floor division? Explain with examples?
4. What are the bitwise operators?
5. If a=5 and b=7 then what are the results of
   1. a&b =
   2. a|b =
   3. a^b =
   4. a>>2 =
   5. a<<2 =
   6. b>>3 =
   7. b<<3 =
6. How to check whether specific element is there or not in the given list?
7. How to compare the addresses of two variables?
8. What is for loop? Give one example?
9. What is while loop? Give one example?
10. Display 10th table by using for loop?
11. How to add first 10 numbers?
12. What is def keyword? And give one example by using def keyword?
13. What is a function definition and function call?
14. What are the actual parameters and formal parameters?
15. What are \*args and \*\*kwargs? Purpose of each one?
16. What is lambda function? When we use lambda functions?
17. What are the other functions that we use along with lambda functions?
18. What is filter function? Given one example?
19. What is map function? Give one example?
20. What is reduce function? Give one example?
21. A list has both even and odd number, then how to access only even numbers? Explain with example?
22. A list has both negative and positive numbers, then how to access only positive numbers? Explain with example?
23. We have two lists, each one has some elements but some elements are matching in two lists, then how to check what are the matching elements? Explain with one example?
24. A list has so many int type values, how to access greatest element among all? Explain with one example?
25. How to find squares of all the elements in the list?
26. How add all elements from both sets as per their index positions?
27. Write a python program for the following scenario, one MNC is conducting interviews, they asked candidates to fill the online form,
    1. Enter your name, (this student name should appear in every display statement )
    2. Qualification must be B.Tech/BE
       1. If he enters other qualification then display “You are not eligible”
       2. If he enters B.Tech or B.E then check passed out year
    3. Passedout year must be either 2016 or 2017
       1. If he enters 2015 or below then display “You are not Fresher”
       2. If he enters 2018 or above then display “You entered invalid year”
       3. If he enters either 2016 or 2017 then check percentage
    4. If percentage
       1. between 70 and 100, then display “You can attend the interview on coming Saturday”
       2. between 50 and 70, then “You can attend interview after two months”
       3. between 35 and 50, then “First you can work in some other companies first two years and then come to interview in our company with experience”
       4. If between 0 and 35, then “please don’t attend the interview in our company at any time”
       5. If he enters less than 0 and more than 100 then “Invalid percentage”
    5. In any case,display **“Thank You for showing interest in our company”** at the end
28. You need to ask user to enter any three values and display him the maximum value out of those three values?

If the user values like a, b and c then the result must like,

a is greater than b and c or

b is greater than a and c or

c is greater then a and b

1. You need to ask user to enter his required product name, if the product name length is more then I character then perform the following operations on the entered product name else display “You entered invalid product name”, The operations are,
   1. Find the length of given string
   2. Display first character in upper case
   3. Check whether that product name contains “x” or not
   4. Display given product name in reverse order
   5. Display given string in ascending order like from a to z.
   6. Display given string in descending order like from z to a.
2. The given string is “NaRaYaNa” then how to display as”nArAyAnA”
3. The given string is”NARAYANA” then how to separate as ‘N’,’R’,’Y’,’N’
4. What is the output for the following:

def a1(a,\*b):

print(a,b)

a1(1,2,3)

**Output:**

1. What is the output for the following:  
   def av(a,b=10,\*c,\*\*d):  
    print(a,b,c,d)  
   av(1,2,a1=3,c='f',d=4,r=5)

**Output:**

1. What is the output for the following:

def av(a,b=10,\*c,\*\*d):  
 print(a,b,c,d)  
av(1,2,'a1',3,'f',4,5)

**output:**

1. What is the difference between readline() and readlines() methods?

**File Name is “CustomerData.txt”**

**1,John,Software, 30000, Hyd, Python  
2,Viyaan,Data Analys’,40000,Bang,Oracle  
3,Renu ,Manager,50000,Mumbai,Python**

1. Fetch last word in the file?
2. Display the salary of Viyaan?
3. Retrieve the second line data from the file?
4. Count number of a’s and e’s from the file?
5. How to count number rows in the file?
6. How to count number of words in the file?
7. How to retrieve all employee names from the file?