MCQs

- Q1. Ans A) "Invalid input"
- Q2. Ans A) "Error: Not a positive integer"
- Q3. Ans A) "Result: Infinity"
- Q4. Ans B) [1, 4, 9, 16, 25]
- Q5. Ans A) 2
- Q6. Ans A) {1, 2, 3, 5, 6, 7, 9, 10}
- Q7. Ans B) 20
- Q8. Ans -A) !dlroW ,olleH
- Q9. Ans B) 3
- Q10. Ans D) ValueError
- Q11. Ans B) 15
- Q12. Ans B) TypeError
- Q13. Ans A) 5.0 Done
- Q14. Ans B) 5
- Q15. Ans A) [1,2,3,4]
- Q16. Ans B) [2,4]
- Q17. Ans A) Hello Alice
- Q18. Ans B) 11
- Q19. Ans C) 120
- Q20. Ans B) 3
- Q21. Ans A) True
- Q22. Ans B) "HELLO, ALICE"
- Q23. Ans A) "Time taken: 2.0 seconds"
- Q24. Ans A) "Arguments: 3, 4, Result: 7"
- Q25. Ans B) 55
- Q26. Ans D) admin panel accessed. Access Denied
- Q27. Ans D) "Max Attempts reached"

PROGRAMMING

Q5. Circular picnic

```
def maxContiSum(arr):
     sum = 0
      for i in arr:
          sum += i
      print(sum)
arr = [10, -4, 1, 3, 3]
maxContiSum(arr)
Q6. Maximum Subarray Sum
def maxSum(a, size):
  newMax = -1
  max = 0
  for i in range(0, size):
    max = max + a[i]
    if (newMax < max):
       newMax = max
    if max < 0:
       max = 0
  print(newMax)
arr = [-2, 1, -3, 4, -1, 2, 1, -5, 4]
maxSum(arr, len(arr))
```

```
Q7. Longest Common Subsequence
def lonComSeq(a, b, m, n):
  if m == 0 or n == 0:
    return 0;
  elif a[m-1] == b[n-1]:
    return 1 + IonComSeq(a, b, m-1, n-1);
  else:
    return max(lonComSeq(a, b, m, n-1), lonComSeq(a, b, m-1, n));
text1 = "AGGTAB"
text2 = "GXTXAYB"
print(lonComSeq(text1, text2, len(text1), len(text2)))
Q8. Matrix Spiral Order
def spiralPrint(m, n, a):
  k = 0
  I = 0
  "k - starting row index
    m - ending row index
    I - starting column index
    n - ending column index "
```

```
while (k < m \text{ and } l < n):
     for i in range(I, n):
        print(a[k][i], end=" ")
     k += 1
     for i in range(k, m):
        print(a[i][n - 1], end=" ")
     n -= 1
     if (k < m):
        for i in range(n - 1, (I - 1), -1):
           print(a[m - 1][i], end=" ")
        m = 1
     if (1 < n):
        for i in range(m - 1, k - 1, -1):
           print(a[i][l], end=" ")
        | += 1
# Driver Code
a = [[1,2,3],
   [4,5,6],
   [7,8,9]]
row = 3
col = 3
spiralPrint(row, col, a)
```

```
Q1. Employee Performance Evalution
def checkPerformance(emp):
  per = []
  for i in emp:
     a = \{\}
     a["name"] = i["name"]
     a["performance_score"] = i["scores"]['Quality of
Work']*i["weights"]["Quality of Work"] + i["scores"]["Team
Collaboration"]*i["weights"]["Team Collaboration"]
     per.append(a)
  print(per)
employees = [
  {"name": "John", "scores": {"Quality of Work": 90, "Team Collaboration":
80}, "weights": {"Quality of Work": 0.6, "Team Collaboration": 0.4}},
  {"name": "Alice", "scores": {"Quality of Work": 85, "Team Collaboration":
95}, "weights": {"Quality of Work": 0.5, "Team Collaboration": 0.5}}
checkPerformance(employees)
```