

DSA Lab12

23K2001

M.Muzammil Siddiqui

BCS-3J

Q1:

```
Index# 0 : aaaaa, zzzzz
Index# 1 : bbbbb
Index# 2 : ccccc
Index# 3 :
Index# 4 :
PS F:\Semester Material - Muzammil\FAST-KHI-Semester-3\I
```

Q2:

```
Input string to add in dictionary: Muzammil
```

```
    Addition successful!
```

```
Input string to add in dictionary: Ali
```

```
    Addition successful!
```

```
Input string to add in dictionary: Ahmed
```

```
    Addition successful!
```

```
Searching for "Atif":
```

```
No such string was found.
```

```
Dictionary:
```

```
Index# 0 :
```

```
Index# 1 :
```

```
Index# 2 :
```

```
Index# 3 : Ali
```

```
Index# 4 : Muzammil, Ahmed
```

```
PS F:\Semester Material - Muzammil\FAST-KHI-Semester-3\Data Structures
```

Q3:

```
Searching for '67': Key found!
```

```
Searching for '100': Key not found
```

```
Deleting key '32':
```

```
Deleted key: 32
```

```
Index# 0:
```

```
Index# 1: 11, 21
```

```
Index# 2:
```

```
Index# 3:
```

```
Index# 4:
```

```
Index# 5: 45
```

```
Index# 6:
```

```
Index# 7: 67
```

```
Index# 8:
```

```
Index# 9: 99
```

```
PS F:\Semester Material - Muzammil\FAST-KHI-Semester-3\
```

Q4:

```
Input-1: {3, 4, 7, 1, 2, 9, 8}
```

```
    Pairs found: (3, 8) and (4, 7)
```

```
Input-2: {3, 4, 7, 1, 12, 9}
```

```
    Pairs found: (4, 12) and (7, 9)
```

```
Input-3: {65, 30, 7, 90, 1, 9, 8}
```

```
    No pairs with equal sum were found.
```

```
PS F:\Semester Material - Muzammil\FAST-KHI-Semester-3\Data Structures (LAB)\
```

Q5:

Added student "Muzammil" Rollnum: 2001

Added student "Ali" Rollnum: 2085

Added student "Ahmed" Rollnum: 1687

Index# 0: Name : Ali Roll#: 2085

Index# 1: -

Index# 2: -

Index# 3: -

Index# 4: -

Index# 5: -

Index# 6: Name : Muzammil Roll#: 2001

Index# 7: Name : Ahmed Roll#: 1687

Index# 8: -

Index# 9: -

Index# 10: -

Index# 11: -

Index# 12: -

Index# 13: -

Index# 14: -

Searching for Roll#: 2001

Record found!

Name: Muzammil Roll#: 2001

Searching for Roll#: 2024

Record not found.

PS F:\Semester Material - Muzammil\FAST-KHI-Semester-3\Data Structures