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CSE 2nd Year 3rd Sem

Roll:33

OUTPUTS

Q1

```
Enter the name of the player you want to add: Pavard
Player added.
Enter the name of the player you want to add: Lloris
Player added.
Enter the name of the player you want to add: Vieira
Player added.
Enter the name of the player you want to add: Coman
Player added.
Enter the name of the player you want to add: Tolisso
Player added.
['Benzema', 'Giroud', 'Griezmann', 'Ribery', 'Varane', 'Pavard', 'Lloris', 'Vieira', 'Coman', 'Tolisso']
```

Q2

```
The list is   [22, 23, 22, 24, 25, 26, 26, 27, 26, 27, 29, 22, 23, 26]
Enter the number whose frequency you want: 22
Frequency:  3
```

Q3

```
The list is   [20, 90, 2, 1, 56, 77, 33, 5, 4, 8, 13, 91, 66]
The sorted list:   [1, 2, 4, 5, 8, 13, 20, 33, 56, 66, 77, 90, 91]
```

Q4

```
The list is  [20, 19, 1, 15, 7, 93, 42]
Enter the number you want to search: 42
The index of the number is  6
```

Q5

```
Table:
10 11 12
13 14 15
16 17 18
```

Q6

```
The lists are different. Difference:
[18, 19]
```

QUESTIONNAIRE

1. Why lists are called mutable?

Mutable means something that can change. The python lists are mutable because we can append, delete, pop and do other operations. We can change it without entirely recreating it.

2. What are the advantages of using list compared to array in C?

Lists in python provide some advantages over arrays in C as they are mutable and we can bring any change at any time. We can perform a variety of functions like delete, append, pop etc. Python will allocate a few extra elements when all allocated elements get used. This means that appending items to lists is faster. Lists are flexible and can be heterogeneous whereas arrays in C must store primitives of the same type.