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DEPT:CSE 2nd Year

Roll:51

QUESTIONNAIRE

1. Why lists are called mutable?

**Ans:** Lists are called mutable since an item in a list can be changed by accessing it directly as a part of an assignment statement.

For example:

In the list cars=[‘BMW’ , ‘McLarens’ , ‘Aston Martin’ , ‘Toyota’ , ‘Porsche’]

the item ‘Toyota’ can be changed by the following statement

cars[3]= ‘Mercedes’

And now if the list if printed, the output would be the following:

‘BMW’ , ‘McLarens’ , ‘Aston Martin’ , ‘Mercedes’ , ‘Porsche’

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

**Ans:** The advantages of using lists are as follows

1. **It is easier to create lists and perform operations on lists using list comprehension than to initialize and perform the same in C.**
2. **Operations like list slicing , search by index, sort can be performed with ease.**
3. **Lists can be converted into strings or sets and vice versa.**
4. **Lists are dynamic in nature. So no memory is left wasted unlike that in Arrays in C.**