DATA STRUCTURES IN R

THERE MAINLY ARE 5 TYPES OF DATA STRUCTURES IN R

1. **VECTOR**: same type of data types(1D)
   Syntax: c(element1,element2,...)
2. **LIST** : different type of data types (1D)
   Syntax: list(element1,element2,....)
3. **MATRIX**: 2D elements
   Syntax: matrix(c(),nrow=,ncol=)
4. **ARRAY** : more than 2D
   Syntax: array(c(),dim=c())
5. **DATA FRAME** : Table representation
   Syntax: data.frame(
   Name = c(),
   Name2 = c(),
   Name3 = c()
)

BUILT IN FUNCTIONS:

1. **rbind**(array/matrix/dataframe object,c())
2. **rbind**(array/matrix/dataframe object,c())
3. **length**()
4. **sort**()
5. **summary**(dataframe object)
6. **dim**()
7. **ncol**()
8. **nrow**()
9. **rep**(vector/matrix object , each=)
10. **Accessing elements using index**[vector/list/matrix/array object]/name(data frame object[[column name]]/$(dataframe object$name column)
11. **Negative index**: any data structure object[-1] ie, except that row or column all is executed
12. **append**(vector/list object, element, after=)