3 applications of fundamental data types/collection data types are:

1)Storing ROS information through lists, triples or dictionaries

2)Checking whether robot has reached certain location using Boolean data type

3)Calculating Euclidean distance for robots using int and float data type

Importance of variables:

Variables are essential for storing data and robots can use this data for mathematical and other applications. Secondly, variables allow the robot for flexible coding in robots. Variables can be used as labels for location in a memory, and this can be used by the robot when it requires certain values.