1.Disadvantages of of ArrayList (Collections ArrayList):

1. Every time we need to perform Unboxing to get the values.
2. We will get run time errors, if we assign wrong data type. Run time errors are more dangerous than compile time errors.

2.Research and find how the values of ArrayList are stored in the memory?

Answer:

1.The elements of an ArrayList are Stored in a chunk of contiguous memory(Consecutive blocks of memory allocated to user process are called Contiguous memory).

2.When that memory becomes full, a larger chunk of contiguous memory has to be allocated (usually twice the size) and the existing elements are into this chunk. We call this chunk the capacity of ArrayList object.

3.Difference between collections and generics

Type	collections	generics
namespace	System.Collections	System.Collections.Generic
Elements	Object type	any type
Type casting	Unboxing is required	No need of unboxing
Examples	ArrayList data=new ArrayList();	List<int> data=new List<int>();

4.How the values of List<T> are stored in memory?

Memory stored in Lists<T> as follows:

Lists are Stored in Distinct chunks of Memory which are linked together with pointers, Which enables efficient use of memory generally does not requires resizing

5. Datatypes and their Alias names:

Data Type	Alias Names
byte	Byte
ushort	UInt16
uint	UInt32
ulong	UInt64
sbyte	SByte
short	Int16
int	Int32
long	Int64
float	Single
double	Double
decimal	Decimal
char	Char
string	String
bool	Boolean