Day 6 morning assignment

What are the disadvantages of Array List (collection array list)?

* If there is a chance of assigning a wrong datatype then we may get runtime errors. Running time errors are dangerous than compile time errors.
* For every compilation we have to unbox the value from reference address.

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**Write the difference between Collections and Generics?**

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|  | Collections | **Generics** |
| namespace | System.Collections; | System.Colections.Generics; |
| Each element is of what type | Object | It can store any elements based on input. |
| Do you need Type casting | Yes, we need Typecasting because values are stored in heap memory. | No, we don’t need type casting because values are stored in stack memory. |
| Example : | ArrayList data =new ArrayList(); | List<int>data=new List<int>(); |

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**Data types and Alias names:**

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| **Data Type** | **Alias Name** |
| 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 |
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How the values of ArrayList are stored in the memory?

* In ArrayList boxed values are stored in heap memory,unboxed values are stored in stack memory .
* Values stored in ArrayList are boxed into object type then we use unboxing .

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* The values in List <T> are stored in managed heap memory .
* List<T> stores objects of same type .