1. **What is the purpose of the Multicast transformation in SSIS? Provide a use-case where it is necessary.**

**Diverting data from a single source to different destinations. For example we have csv, excel, sql destinations we should send data to this places by the help of multicast**

1. **What is the difference between Delimited and Fixed Width text formats in Flat File sources?**

**In delimited , columns are defined by comma or other delimeters but in fixed width we use spaces to create columns. In the same length we should put datas to define columns**

1. **How can you change the code page in a flat file connection?**

**In flat manager there is general tab and you can chage data types and isert other changes through other tabs for example in advance tab we can change data type**

1. **Describe the process of using the Derived Column transformation to add a LoadDate column with the current date.**

**Drag and drop derived column and click then window appears there you should add columns we write column name and put getdate() from function columns.**

1. **How can you create a conditional column such as “Senior” or “Junior” based on an age column in Derived Column?**

**[age]<20? “junior”:[age]<30?”middle”:”senior”**

1. **What happens if column names in the first row of a flat file are not checked? How does it affect column mapping?**

**In default mode, flat manager see first row as headers but if it doesn’t check it , all things are received as data so this can cause mismatch between source and destination**

1. **Explain how to use a Script Task and Variable to count rows in SSIS and print them using C#.**

**Scipt task and find scrip tap there you can see readonlyvariable choose the user::variable in C# we just converting it to string print out through messagebox.show then run package**

1. **How do you enable and use a Data Viewer in the data flow to debug your transformation?**

**Double click on line and move to data viewer tab there you can enable it before transforming data we can see what we transform**

1. **What is the role of a breakpoint in SSIS, and how is it used to monitor variables?**

**In breakdown we can choose one of steps to see the result especially to see the value of variable.**