Implementing a Doubly Linked List

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Using a Doubly Linked List to Store College Employee Details and perform operations on the list such as

a) Insert from the End

b) Delete from the End

c) Insert from the Front

d) Delete from the Front

**OUTPUT**

**Creation of DLL**

**Enter number of employees**

**2**

**Enter the Employees Details**

**Enter the SSN**

**1**

**Enter the First Name**

**Jane**

**Enter the Department**

**Computers**

**Enter the Designation**

**Professor**

**Enter the Salary**

**500000**

**Enter the Phone Number**

**4857654**

**Enter the Employees Details**

**Enter the SSN**

**2**

**Enter the First Name**

**Rob**

**Enter the Department**

**Electronics**

**Enter the Designation**

**Professor**

**Enter the Salary**

**600000**

**Enter the Phone Number**

**3847584**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**1 Jane Computers Professor 500000 4857654**

**2 Rob Electronics Professor 600000 3847584**

**Number of nodes is =2**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**2**

**Enter the Employees Details**

**Enter the SSN**

**3**

**Enter the First Name**

**Matt**

**Enter the Department**

**Mechanics**

**Enter the Designation**

**HOD**

**Enter the Salary**

**600000**

**Enter the Phone Number**

**4938472**

**Node inserted at end**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**1 Jane Computers Professor 500000 4857654**

**2 Rob Electronics Professor 600000 3847584**

**3 Matt Mechanics HOD 600000 4938472**

**Number of nodes is =3**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**3**

**Node deleted at end**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**1 Jane Computers Professor 500000 4857654**

**2 Rob Electronics Professor 600000 3847584**

**Number of nodes is =2**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**2**

**Enter the Employees Details**

**Enter the SSN**

**3**

**Enter the First Name**

**Matt**

**Enter the Department**

**Mechanical**

**Enter the Designation**

**Assistant**

**Enter the Salary**

**40000**

**Enter the Phone Number**

**3849534**

**Node inserted at end**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**1 Jane Computers Professor 500000 4857654**

**2 Rob Electronics Professor 600000 3847584**

**3 Matt Mechanical Assistant 40000 3849534**

**Number of nodes is =3**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**5**

**Node deleted at front**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**2 Rob Electronics Professor 600000 3847584**

**3 Matt Mechanical Assistant 40000 3849534**

**Number of nodes is =2**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**4**

**Enter the Employees Details**

**Enter the SSN**

**1**

**Enter the First Name**

**Frank**

**Enter the Department**

**Computers**

**Enter the Designation**

**Professor**

**Enter the Salary**

**400000**

**Enter the Phone Number**

**4958495**

**Node inserted at front**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**

**1**

**SSN Name Department Designation Salary Phone\_No**

**1 Frank Computers Professor 400000 4958495**

**2 Rob Electronics Professor 600000 3847584**

**3 Matt Mechanical Assistant 40000 3849534**

**Number of nodes is =3**

**1.Display**

**2.Insert End**

**3.Delete end**

**4.Insert front**

**5.Delete front**

**6.Exit**

**Enter the choice**