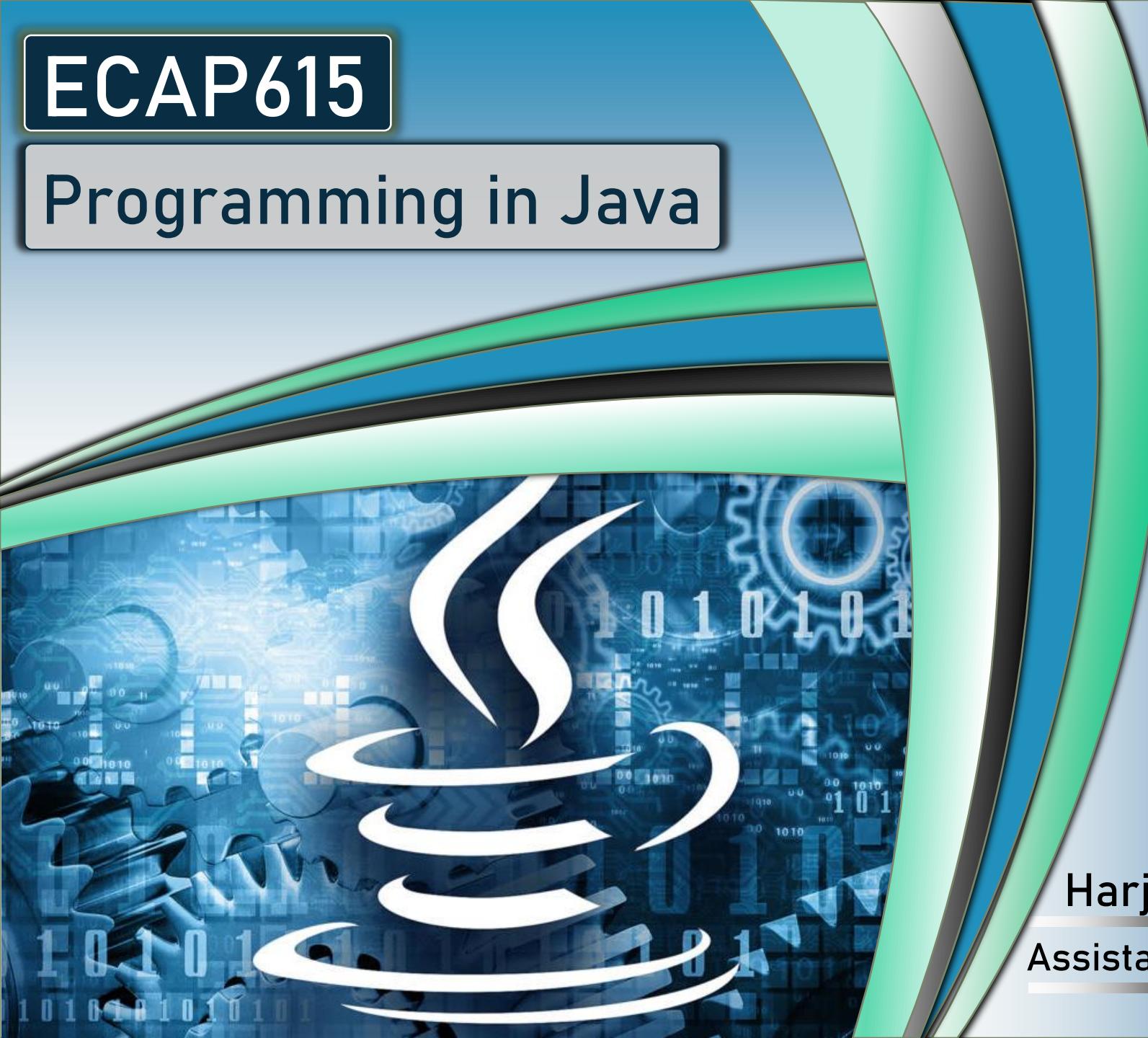# ECAP615

Programming in Java

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Learning Outcomes

After this lecture, you will be able to

- learn the basic concepts of BoxLayout and CardLayout

- understand the various constructors and methods of BoxLayout and CardLayout

- implementation of BoxLayout and CardLayout

BoxLayout

- The BoxLayout is used to arrange the components either vertically or horizontally.

BoxLayout

- For this purpose, BoxLayout provides four constants. They are as follows:

  - ➢ public static final int X_AXIS

  - ➢ public static final int Y_AXIS

  - ➢ public static final int LINE_AXIS

  - ➢ public static final int PAGE_AXIS

BoxLayout Constructor

- BoxLayout(Container c, int axis): creates a box layout that arranges the components with the given axis.

Methods of BoxLayout

- addLayoutComponent(Component cmp, Object obj)

- getLayoutAlignmentX(Container con)

- getLayoutAlignmentY(Container con)

- maximumLayoutSize(Container con)

Methods of BoxLayout

- minimumLayoutSize(Container con)

- removeLayoutComponent(Component cmp)

- layoutContainer(Container tar)

CardLayout

- The CardLayout class manages the components in such a way that only one component is visible at a time.

- It treats each component as a card in the container.

- Only one card is visible at a time, and the container acts as a stack of cards.

Constructors of CardLayout

- CardLayout()

- CardLayout(int horizontalgap, int verticalgap)

Methods of CardLayout

- public void next(Container parent)

- public void previous(Container parent)

- public void first(Container parent)

- public void last(Container parent)

- public void show(Container parent, String name)

Methods of CardLayout

- getLayoutAlignmentX(Container parent)

- getLayoutAlignmentY(Container parent)

- getVgap()

- addLayoutComponent(Component cm, Object cn)

Methods of CardLayout

- getHgap()

- toString()

- removeLayoutComponent(Component cm)

That's all for now…