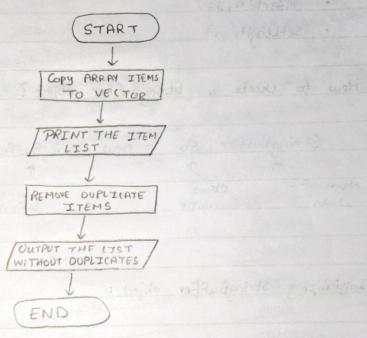
Aim: Greate, debug and run java programs based on Wrapper class and Vectors

flow chart:

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Aim: Create, deling and roun java programs based on Wrappen class and vectors.

Theory:

What are wrapper classes?

As we know, vectors cannot handle primitive data types like int, float, long, char and double.

· Brimitive data types may be converted into object types by using the wrapper classes contained in the java lang package.

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	Simple Type	Wrapper class	
	boolean	Boolean	
	char	Character	
	double	Double	
	Float	Float	
-	int	Integer	

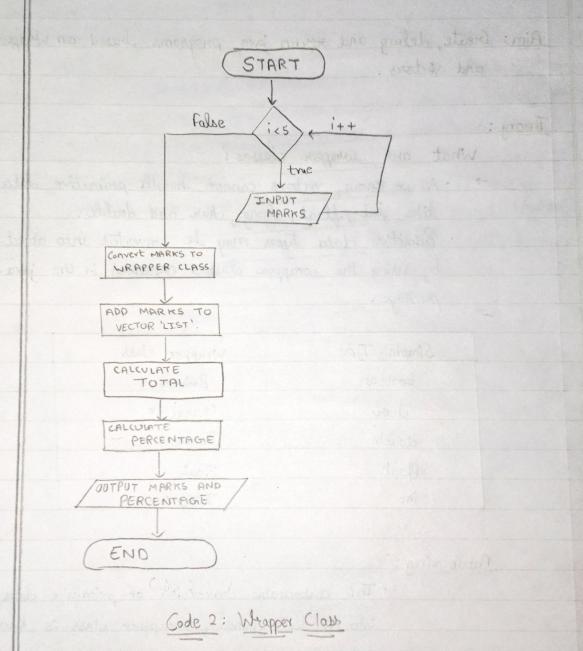
Autoboxing:

- · The automatic conversion of primitive data type into its corresponding wrapper class is known as autoboxing.
- · Since Java 5, we do not need to use the valueOFO valueOF() method.

· example .

int a = 25:

Integer b = new Integer (a): Integer value Off(a)



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Unboxing: · Automatic conversion of wrapper class type into its corresponding primitive type is known as unboxing. · This process is reverse of autoboxing. · Example: Integer a = new Integer (35); int b = a : // now, since Java 5 , compiler will write 11 a. int Value (); internally Vectors in Java: · The Vector class in Java implements a growable array of objects. · To use Vector class, we need to import, java. util Vector' · Vector implements a dynamic array, i.e. it can grow and shrink size according to the need. Declaration: Vector <e> v = new Vector Le> (); ex. Vector (String> v = new Vector (String) (); Vector methods: V. add Element (item); V. elementAt (10); V. Size (); J. vernove Element (item); V. Yemove ElementAt (index);

Conclusion:

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Hence, by performing this practical I learnt about the concepts of Wrappier classes and Vector. I also coded, debugged and executed java programs based on the concepts of Wrapper classes and Vectors.