

# Core Java

## 12. Generics

# Generics

- Generics are language extensions that parameterize language types
- Parameterization helps static checking of types in collections
- This checking will be extended to runtime by Java 7
- Easing creating collections and ensuring type integrity = lesser boilerplate coding

# Examples

```
class Stack<T> {  
    T decl[];  
    void push(T a);  
    T pop();  
}
```

```
public static <T> boolean  
    concat(Collection<? super T> coll,  
            T element)
```

# Examples

```
ArrayList<String> aa=new ArrayList<String>();  
//aa.add(2);  
aa.add("This will work");
```

```
HashMap<String,String> dict=new  
    HashMap<String,String>();  
dict.add("apple","red fruit");
```

```
Set<Integer> myenum=new Set<Integer>();  
myenum.add(3);
```

# Demonstration

- Compile and Execute a few programs

Questions?