Java Concept 55

- Direct conversion from larger data type to small data type is not possible

- Through type casting conversion from larger data type to small data type is possible

```
1  //Error
2  double data = 20.586;
3  int temp = data;
```

```
1 //No Error
2 //Type Casting
3 double data = 20.586;
4 int temp = (int)data;
```

```
1   //Direct converting smaller data type(int)
2   //to bigger data type(double) // No Error
3   public class JavaConcept
4   {
5       public static void main(String args[])
6         {
7             int temp  = 20;
8             double data = temp;
9             System.out.println(data);
10        }
11  }
```
```
run:
20.0
```

```
1   //Direct converting bigger data type(double)
2   //to smaller data type(int) // Error
3   public class JavaConcept
4   {
5       public static void main(String args[])
6         {
7
8             double data = 20;
9             int temp  = data;
10            System.out.println(temp);
11        }
12  }
```
```
Error - incompatible types: possible lossy conversion from double to int
```

```
1   //Type Casting bigger data type(double)
2   //to smaller data type(int) //No Error
3   //case 1(type cast double to int)
4   public class JavaConcept
5   {
6       public static void main(String args[])
7          {
8
9              double data = 20.456;
10             //type casting
11             int temp   = (int)data;
12             System.out.println("Type casting "
13                     + "double to int : "+temp);
14         }
15  }
```
run:
Type casting double to int : 20


```
1   //Type Casting bigger data type(int)
2   //to smaller data type(char) //No Error
3   //case 2(type cast int to char)
4   public class JavaConcept
5   {
6       public static void main(String args[])
7          {
8
9              int data = 68;
10             //type casting
11             char temp  = (char)data;
12             System.out.println("Type casting "
13                     + "int to char : "+temp);
14         }
15  }
```
run:
Type casting int to char : D