

Java Concept 70

- Interface can not be instantiated
- Reference variable of interface can store address of class to which it implements
- Through Interface reference variable only methods which are declared in interface can be called

```
1 //Error
2 interface Java
3 {
4
5 }
6 class JavaConcept
7 {
8     Java obj = new Java();
9 }
```

```
1 //No Error
2 interface Java
3 {
4
5 }
6 class JavaConcept implements Java
7 {
8     Java obj = new JavaConcept();
9 }
```

```
1 //Reference variable of interface made
2 // No Error
3 interface numInterface{
4     public static int num = 10;
5     public void display_num();
6 }
7
8 interface strInterface{
9     public static String str = "ten";
10    public void display_str();
11 }
12
13 public class JavaConcept implements numInterface , strInterface{
14     public void display_num() {
15         System.out.println("Num interface : "
16             +num);
17     }
18
19     public void display_str() {
20         System.out.println("Str interface : "
21             +str);
22     }
23     public void show() {
24         System.out.println("Show method");
25     }
26     public static void main(String args[]) {
27         numInterface obj = new JavaConcept();
28         obj.display_num();
29     }
30 }
```

run:
Num interface : 10

```

1  //Calling (strInterface)interface method which
2  //is not declared in interface(numInterface)
3  //, using interface(numInterface) reference variable
4  //Error
5  interface numInterface{
6      public static int num = 10;
7      public void display_num();
8  }
9
10 interface strInterface{
11     public static String str = "ten";
12     public void display_str();
13 }
14
15 public class JavaConcept implements numInterface , strInterface{
16     public void display_num() {
17         System.out.println("Num interface : "+num);
18     }
19
20     public void display_str() {
21         System.out.println("Str interface : "+str);
22     }
23     public void show() {
24         System.out.println("Show method");
25     }
26     public static void main(String args[]) {
27         numInterface obj = new JavaConcept();
28         obj.display_str(); //Error
29     }
30 }

```

Error - cannot find symbol obj.display_str();

```

1 //Calling (JavaConcept)Class method which
2 //is not declared in interface(numInterface)
3 //, using interface(numInterface) reference variable
4 //Error
5 interface numInterface{
6     public static int num = 10;
7     public void display_num();
8 }
9
10 interface strInterface{
11     public static String str = "ten";
12     public void display_str();
13 }
14
15 public class JavaConcept implements numInterface , strInterface{
16     public void display_num() {
17         System.out.println("Num interface : "+num);
18     }
19
20     public void display_str() {
21         System.out.println("Str interface : "+str);
22     }
23     public void show() {
24         System.out.println("Show method");
25     }
26     public static void main(String args[]) {
27         numInterface obj = new JavaConcept();
28         obj.show(); //Error
29     }
30 }

```

Error - cannot find symbol obj.show();