



RIPHAH
INTERNATIONAL UNIVERSITY

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Subject: MAD

Section: SE 5-2

Mobile Application Development Practice

Code:

```
class Student {  
    final String name;  
    final int age;  
  
    // 1. Default constructor  
    Student()  
        : name = "Unknown",  
          age = 0;  
  
    // 2. Parameterized constructor  
    Student.parameterized(this.name, this.age);  
  
    // 3. Named constructor  
    Student.named({required String studentName, required int studentAge})  
        : name = studentName,  
          age = studentAge;  
  
    // 4. Redirecting constructor  
    Student.young(String studentName) : this.parameterized(studentName, 18);  
  
    // 5. Constant constructor  
    const Student.constant(this.name, this.age);
```

```
void display() {  
    print("Name: $name, Age: $age");  
}  
}  
  
void main() {  
    // Using default constructor  
    var s1 = Student();  
    s1.display();  
  
    // Using parameterized constructor  
    var s2 = Student.parameterized("Ali", 22);  
    s2.display();  
  
    // Using named constructor  
    var s3 = Student.named(studentName: "Waqar", studentAge: 25);  
    s3.display();  
  
    // Using redirecting constructor  
    var s4 = Student.young("Hassan");  
    s4.display();  
  
    // Using constant constructor  
    const s5 = Student.constant("Abdullah ", 21);  
    s5.display();  
}
```

Images:

```
main.dart x
1  class Student {
2      final String name;
3      final int age;
4
5      // 1. Default constructor
6      Student()
7          : name = "Unknown",
8            age = 0;
9
10     // 2. Parameterized constructor
11     Student.parameterized(this.name, this.age);
12
13     // 3. Named constructor
14     Student.named({required String studentName, required int studentAge})
15         : name = studentName,
16           age = studentAge;
17
18     // 4. Redirecting constructor
19     Student.young(String studentName) : this.parameterized(studentName, 18);
20
21     // 5. Constant constructor
22     const Student.constant(this.name, this.age);
23
24     void display() {
25         print("Name: $name, Age: $age");
26     }
27 }
```

```
Configure a version control for the project
28
29 void main() {
30     // Using default constructor
31     var s1 = Student();
32     s1.display();
33
34     // Using parameterized constructor
35     var s2 = Student.parameterized("Ali", 22);
36     s2.display();
37
38     // Using named constructor
39     var s3 = Student.named(studentName: "Wagdar", studentAge: 25);
40     s3.display();
41
42     // Using redirecting constructor
43     var s4 = Student.young("Hassan");
44     s4.display();
45
46     // Using constant constructor
47     const s5 = Student.constant("Abdullah ", 21);
48     s5.display();
49 }
50
```

Output:

```
C:/flutter/bin/cache/dart-sdk/bin/dart.exe --enable-asserts --no-serve-devtools D:\Flutter\practies\lib\main.dart
Name: Unknown, Age: 0
Name: Ali, Age: 22
Name: Waqar, Age: 25
Name: Hassan, Age: 18
Name: Abdullah , Age: 21

Process finished with exit code 0
```