

ASSIGNMENT # 1

**SCD**



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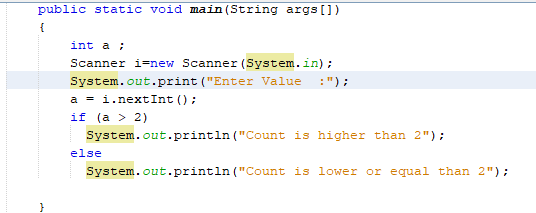
**Question 1:**

Control structures are programming blocks that can change the path we take through those instructions.

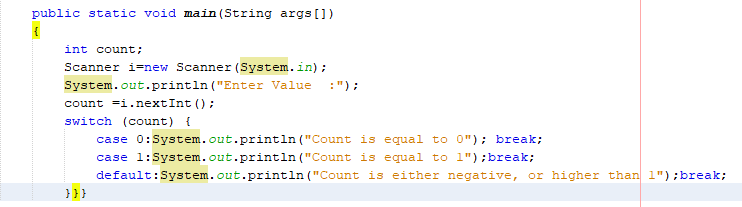
There are three kinds of control structures:

**1. Conditional Branches**, which we use for choosing between two or more paths. Types in Java:

**If/else/else if**:



**Switch:**

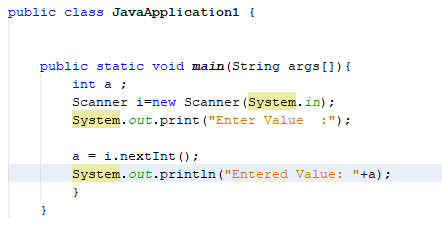


**2. Loops** that are used to iterate through multiple values/objects and repeatedly run specific code blocks. The basic loop types in Java are for, while and do while.

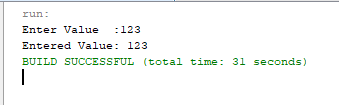
**3. Branching Statements**, which are used to alter the flow of control in loops. There are two types in Java: break and continue.

**Question 2:**

**Code:**

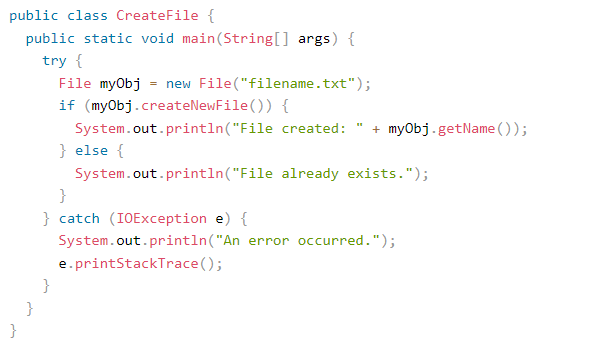


**Output:**

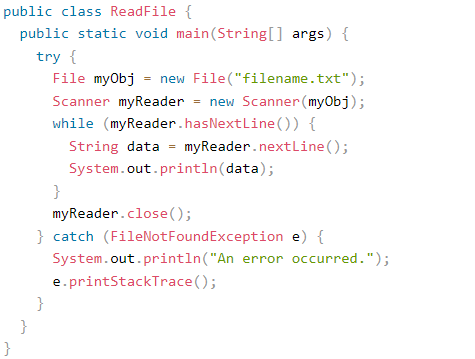


**Question 3:**

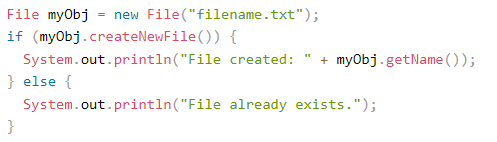
**(A):-**



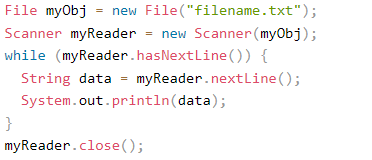
**(B):-**



**(C):-**

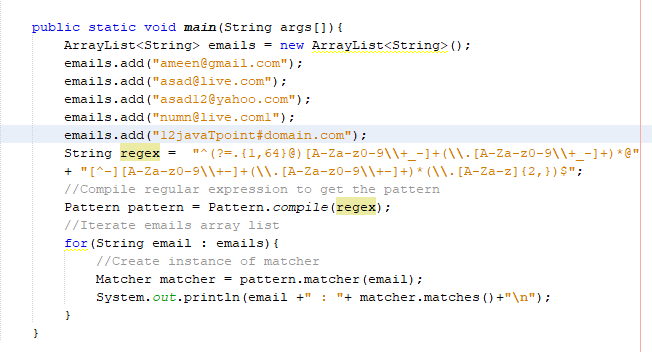


**(D):-**



**Question 4:**

**Code:**



**Output:**

