Control Statements in Java

(Part - 2)

Control Statements
Alter the flow of execution of the programs

(1) Decision-making/ Conditional Statements/(Branching and Selection)

      (a) if statement

      (b) if-else statement

      (c) switch statement

(2) Loop statements:

      (a) for statement

      (b) while statement

      (c) do-whil**e statement**

(3) **Breaking control statements :**

      (a) break statement

      (b) continue statement

      (c) goto statement

The switch …case Statement

➢ Multi-way Branching Statement

➢ select from one of many different actions

```
switch (integer expression)
{
      case value1:
            statement-block1;
            break;
      case value2:
            statement-block2;
            break;
            …
      default:
            default-block;
}
```

Example

```java
class SwitchDemo
{
    public static void main(String args[])
    {
        int x , y ;
        char choice;
        x = 10;
        y = 2;
        try
        {
            System.out.println("Enter your choice :");
            choice= (char)System.in.read();
```

Example

```java
    switch (choice)
    {
    case 'A' :
        System.out.println("Result of Addition:" +(x+y));      break ;
    case 'S' :
        System.out.println("Result of Subtraction:" +(x-y));   break ;
    case 'M' :
        System.out.println("Result of Multiplication:" +(x*y));  break ;
    case 'D' :
        System.out.println("Result of Division:" +((float)x / (float)y)); break ;
    default :System.out.println("Wrong choice !!");
    }
  }
 catch(Exception e) { System.out.println("I/O Error"); }
 }
}
```

Thank you