

## Day4\_ControlStatements

DAY4:

-----

- 1.if/else if
- 2.Looping (for, while, do-while)
- 3.Switch case
- 4.break/continue

QUESTIONS (Theory)

-----

- 1.What is difference between break and continue?
- 2.Whether we can use continue statement in switch?
- 3.What is mean by control statements and types?
- 4.What is mean by for loop?
- 5.Can you explain about for loop execution process?
- 6.What is difference between while and do-while?
- 7.What is the use of default keyword in switch?
- 8.Difference between for and while loop?

QUESTIONS (Find the output)

-----

QUESTION 1:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 100; i++) {
            if (i == 5) {

                }
            System.out.println(i);

        }

    }
}
```

QUESTION 2:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 10; i++) {
            if (i == 5) {
                break;
            }
            System.out.println(i);

        }

    }
}
```

QUESTION 3:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 10; i++) {
            if (i == 5) {
                continue;
            }
            System.out.println(i);
        }
    }
}
```

QUESTION 4:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = 1; j <= 3; j++) {
                System.out.println(j);
            }
        }
    }
}
```

QUESTION 5:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = 1; j <= 3; j++) {
                System.out.println(i);
            }
        }
    }
}
```

QUESTION 6:

-----

```
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.println(j);
            }
        }
    }
}
```

```

    }
}

QUESTION 7:
-----
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = i + 1; j <= 3; j++) {
                System.out.println(j);
            }
        }
    }
}

```

```

QUESTION 8:
-----
package org.test;

public class Hello {
    public static void main(String[] args) {
        for (int i = 1; i <= 3; i++) {
            for (int j = i + 1; j <= i; j++) {
                System.out.println(j);
            }
        }
    }
}

```

```

QUESTION 9:
-----
package org.test;

public class Hello {
    public static void main(String[] args) {
        int i=5;
        if (i == 5) {
            break;
        }
        System.out.println(i);
    }
}

```

```

QUESTION 10:
-----
package org.test;

public class Hello {
    public static void main(String[] args) {

```

```

    int i=5;
    if (i == 5) {
        continue;
    }
    System.out.println(i);
}
}

```

#### QUESTIONS (Programs)

##### QUESTION 1:

Description: Write Java program to allow the user to input his/her age.  
Then the program will show if the person is eligible to vote.  
A person who is eligible to vote must be older than or equal 18 to 18 years old.

Example:

Input = 10  
Output = print not eligible.

##### QUESTION 2:

Description: Write a program to find even or odd number

Example:

Input = 10  
Output = Even

##### QUESTION 3:

Description: Write a program to print even number from 1 to 100

Example:

Output = 2,4,....100

##### QUESTION 4:

Description: Find the sum of odd number 1 to 100

Example:

Output = 2500

##### QUESTION 5:

Description: Count of even number 1 to 100

Example:

Output = 50

##### QUESTION 6:

Description: Write a program to find the factorial of a number.

Example:

-----  
Input = 5  
Output = 120

QUESTION 7:

-----  
Description: Write a program to print the fibonacci series of a number 1 to 100.

Example:

-----  
Output = 0,1,1,2,3,5.....

QUESTION 8:

-----  
Description: Find prime number or not.

Example:

-----  
Input = 11  
Output = prime number

QUESTION 9:

-----  
Description : Print the below patterns using for loop.

Output:

-----  
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5  
1 2 3 4 5 6  
1 2 3 4 5 6 7

-----  
                  \*  
              \*  \*  
          \*  \*  \*  
      \*  \*  \*  \*  
  \*  \*  \*  \*  \*

-----  
\*  
\*  \*  
\*  \*  \*  
\*  \*  \*  \*  
\*  \*  \*  \*  \*

QUESTION 10:

-----  
Description: Find Armstrong number or not

Example:

-----  
Input = 153  
Output = Armstrong number

QUESTION 11:

-----  
Description: Reverse the number

Example:  
-----

Input = 123  
Output = 321

QUESTION 12:  
-----

Description: Count of the number

Example:  
-----

Input = 123  
Output = 3

QUESTION 13:  
-----

Description: Sum of the number

Example:  
-----

Input = 123  
Output = 6

QUESTION 14:  
-----

Description: Verify the number is palindrome number not

Example:  
-----

Input = 141  
Output = Palindrome