

Q>  
 Syntax:  

```
while(boolean){
    stmt-1;
    stmt-2
}
```

```
public class ExampleWhile{
    public static void main(String args[]){
        while(1){//1 is not boolean in java
            System.out.println("hello");
        }
    }
}
```

 A. CompileTime Error  
 B. Infinite times hello  
 C. hello  
 D. some problem by jvm during execution

Answer: A

Q>  

```
public class ExampleWhile{
    public static void main(String args[]){
        while(true){
            System.out.println("hello");
        }
    }
}
```

 A. CompileTime Error  
 B. Infinite times hello  
 C. hello  
 D. some problem by jvm during execution

Answer: B

Q>  
 Syntax  

```
while(true)
    stmt-1;
```

 ; -> it is a valid java statement  

```
public class ExampleWhile{
    public static void main(String args[]){
        while(true);
    }
}
```

 A. CompileTime Error  
 B. Infinite times hello  
 C. hello  
 D. some problem by jvm during execution  
 E. Infinite loop with no output

Answer: E

Q>  

```
public class ExampleWhile{
    public static void main(String args[]){
        while(true)
            int x =10;//declarative statements are not allowed
    }
}
```

```

    }
}

```

A. CompileTime Error  
 B. some problem by jvm during execution  
 C. Memory for x will be given 4bytes becoz of type int  
 D. None of the above

Answer: A

Q>

```

public class ExampleWhile{
    public static void main(String args[]){
        while(true){
            int x =10;
        }
    }
}

```

A. CompileTime Error  
 B. some problem by jvm during execution  
 C. Memory for x will be given 4bytes becoz of type int during execution  
 D. None of the above

Answer: C

Q>

```

public class ExampleWhile{
    public static void main(String args[]){
        while(true){
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}

```

A. CompileTime Error at line-n1  
 B. hello infinite times  
 C. hiee  
 D. some problem by jvm during the execution  
 E. CompileTime Error at line-n2  
 F. None of the above

Answer: E(unreachable code)

Q>

```

public class ExampleWhile{
    public static void main(String args[]){
        while(false){
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}

```

A. CompileTime Error at line-n1  
 B. hello  
 C. hiee  
 D. some problem by jvm during the execution  
 E. CompileTime Error at line-n2  
 F. None of the above

Answer: A(unreachable code)

Q>

```

public class ExampleWhile{
    public static void main(String args[]){
        int a =10,b=20;
        while(a<b){ 10<20 =====> while(true)
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}

```

- A. CompileTime Error at line-n1
- B. hello
- C. hiee
- D. some problem by jvm during the execution
- E. CompileTime Error at line-n2
- F. None of the above

Answer: F

Q>

Note: Whenever variables are marked as final, compiler will get to know the value of those variables and it will use the values in the Expression to get the result.

```

public class ExampleWhile{
    public static void main(String args[]){
        final int a =10,b=20;//compiler knows the value of the variables a, b.
        while(a<b){// while(10<20) ----> while(true)
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}

```

- A. CompileTime Error at line-n1
- B. hello
- C. hiee
- D. some problem by jvm during the execution
- E. CompileTime Error at line-n2
- F. None of the above

Answer: E

Q>

```

public class ExampleWhile{
    public static void main(String args[]){
        final int a =10;
        while(a<20){// Compiler ===== while(10<20) ---> while(true)
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}

```

- A. CompileTime Error at line-n1
- B. hello
- C. hiee
- D. some problem by jvm during the execution
- E. CompileTime Error at line-n2
- F. None of the above

Answer: E

Q>

```
public class ExampleWhile{
    public static void main(String args[]){
        int a =10;
        while(a<20){//JVM=====> while(10<20) ===> while(true)
            System.out.println("hello");//line-n1
        }
        System.out.println("hiee");//line-n2
    }
}
```

- A. CompileTime Error at line-n1
- B. hello
- C. hiee
- D. some problem by jvm during the execution
- E. CompileTime Error at line-n2
- F. hello infinite times
- G. None of the above

Answer: F

Q>

```
public class ExampleDoWhile{
    public static void main(String args[]){
        do
            System.out.println("hello");//line-n1
        while(true);
    }
}
```

- A. CompileTime Error at line-n1
- B. hello infinite times
- C. some problem by jvm during the execution
- D. hello
- E. None of the above

Answer: B

Q>

Note: If we are using do while then there should be atleast one statement as the body otherwise it would result in "CompiletimeError".

```
public class ExampleDoWhile{
    public static void main(String args[]){
        do
            while(true);
    }
}
```

- A. Compile time error
- B. some problem by jvm during the execution
- C. No output
- D. None of the above

Answer: A

Q>

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

```

        do;
        while(true);
    }
}

```

A. Compile time error  
 B. some problem by jvm during the execution  
 C. No output  
 D. None of the above

Answer: C

Q>

```

public class ExampleDowhile{
    public static void main(String args[]){
        do
            int x =10; //line-n1
            while(true);
    }
}

```

A. Compile time error at line-n1  
 B. some problem by jvm during the execution  
 C. No output  
 D. None of the above

Answer: A

Q>

```

public class ExampleDowhile{
    public static void main(String args[]){
        do{
            int x =10; //line-n1
        }while(true);
    }
}

```

A. Compile time error at line-n1  
 B. some problem by jvm during the execution  
 C. No output  
 D. None of the above

Answer: C

Q>

```

public class ExampleDowhile{
    public static void main(String args[]){
        do while(true)
            System.out.println("hello");
        while(true);
    }
}

```

A. CompileTime Error  
 B. hello infinite times  
 C. some problem by jvm during the execution  
 D. hello  
 E. None of the above

Answer: B(refer to the changes made by compiler as shown below)

Compiler will do  
 -----

```
do
    while(true)
        System.out.println("hello");
while(true);
```