

```
class Test

public static void main(String[] args)

int x=1;
    if(x)

System.out.println("Hello");
}
else
{
    System.out.println("Hi");
}
}
```

```
class Test

public static void main(String[] args)

int x = 10;
    int y = 20;
    switch(x)

case 10:
        System.out.println(10);

case y:
        System.out.println(20);
}

}
}
```

Test.java:11: error: constant expression required case y:

```
class Test
 class Test
                                                . □ {
∃ {
                                                    public static void main(String[] args)
    public static void main(String[] args)
                                                . 8
    {
\exists
                                                       int x=1;
       byte b=10;
                                                       switch(x)
       switch(b)
                                                B
3
                                                B
                                                          default:
                                                            System.out.println("def");
3
          case 10:
                                                          case 0:
             System.out.println(10);
                                                            System.out.println(0);
             break;
                                                             break;
3
          case 100:
                                                          case 1:
             System.out.println(100);
                                                            System.out.println(1);
             break;
                                                B
                                                          case 2:
          case 1000:
3
                                                            System.out.println(2);
             System.out.println(1000);
                                                 }
        U
                   Ε
                                S
                                                                     0
                                                                                    N
```

```
public class lest
{
    public static void main(String[] args)
    {
        String stuff="\frac{n}{2};
        String res=null;
        if(stuff.equals("\frac{n}{2}"))
        {
                 res="A";
              }
        else if(stuff.equals("\frac{n}{2}"))
        {
                  res="B";
        }
        else
        {
                  res="C";
        }
        else
        {
                  res="C";
        }
        }
    }
}
```

```
public class Test

public static void main(String[] args)

{
    //line-1
    switch(x)
    {
        case 10:
            System.out.println("Ten");
            break;
        case 20:
            System.out.println("Twenty");
            break;
}
```

```
Which 3 code fragments can be independently inserted at line-1 to print Ten A) byte x = 10; B) short x = 10; C) String x = "10"; D) long x = 10; E) double x = 10; F) Integer x = 10 Integer x = 10
```

```
public class Test
                                                 Which of the following changes are required to print TrueDone?
∃ {
                                                A) Replace line-1 with String b="true";
    public static void main(String[] args)
                                                   Replace line-2 with case "true";
                                                B) Replace line-1 with boolean b=1;
       boolean b = true;//line-1
                                                   Replace line-2 with case 1;
       switch(b)
                                                 C) remove break statement
                                                 D) remove the default section
3
          case true://line-2
            System.out.print("True");
             break;
          default:
            System.out.print("default");
       System.out.println("Done");
 }
 public class Test
   public static void main(String[] args)
     String color="Green";
                                          What is the output?
     switch(color)
       case "Red":
                                        ■A) Red
         System.out.println("Red");
       case "Blue":
                                             Blue
          System.out.println("Blue");
                                        B) Green
          break;
       case "Green":
                                                               I
                                             Default
          System.out.println("Green");
                                              Default
       default:
          System.out.println("Default");
                                               Green
```

- Q. Which of the following is true about switch statement?
- A) It should contain the default section
- B) The break statement, at the end of each case block is mandatory
- C) Its case lable literals can be changed at runtime
- D) Its expression must evaluate a single value

WHILE STATEMENT

```
class Test
{
    public static void main(String[] args)
    {
        while(1)
        {
            System.out.println("Hello World!");
        }
     }
}
```

```
D:\durgaclasses>javac Test.java
Test.java:5: error: incompatible types: int cannot be converted to boolean

while(1)

^
1 error
```

For Loop

```
class Test

public static void main(String[] args)

int i=0;
for(System.out.println("Hello Boss You are Sleeping");
sleeping"))

i ++;
}

i ++;
}

}
```

For-each loop

```
for-each loop:

Enhanced for loop

1.5 version

Specially designed loop to retrieve elements fo arrays and collections
```

Some requirements:

- 1.. Process all the elements of the array in the order of entry
- 2.. Process all the elements of the array in the reverse order of entry
- 3.. Process alternative elements of the array in the order of entry

for-loop:1,2,3 for-each:1

```
Break:
 break:

    inside switch to stop fall through I

 2. inside loops to break loop execution based on some condition
 3. we can use inside labeled blocksto break block execution
  class Test
2 □ {
     public static void main(String[] args)
3
4 =
        int x=10;
        System.out.println("Hello"); ~
6
                                                 Labeled block example
8 =
           System.out.println("Begin"); ~
9
           if(x==10)
0 =
            -break I1;
1
           System.out.println("End");
3
        System.out.println("Hi");
5
6
Continue
  1>Only inside loop
```

```
public class Test
                                                         Which modification enables the code to print 54321
                                                         A) Replace Line-1 with System.out.print(--i);
    public static void main(String[] args)
                                                         B) At Line-2, insert i--; Replace Line-3 with return (i> 0)? true: false;
                                                         C) Replace Line-1 with --i; and , at Line-2 insert System.out.print(i);
                                                         D) Replace Line-3 with return (i> 0)? true: false;
       int i = 5;
       while(isAvailable(i))
                                                          Which modification enables the code to print 54321
          System.out.print(i);//Line-1
          //Line-2
                                                          A) Replace Line-1 with System.out.print(--i);
                                                         B) At Line-2, insert i--;
                                                         C) Replace Line-1 with --i; and , at Line-2 insert System.out.print(i);
    public static boolean isAvailable(int i)
                                                         D) Replace Line-3 with return (i> 0) ? true : false;
       return i-- > 0 ? true : false;// Line-3
 public class Test
□ {
     public static void main(String[] args)
        int[] x = \{1,2,3,4\};
        int i = 0;
        do
\Box
        {
           System.out.print(x[i]+" ");//123
        while (i < 3);
```

```
public class Test
2 = {
3
     public static void main(String[] args)
4 8
        int x = 5;
                                                What is the result?
6
        do
                                                A) 5 4 3 2 1 0
           System.out.print(x-- +" ");
8
                                                B) 5 4 3 2 1
9
        while (x==0);
                                                   Nothing is printed
```

```
public class Test

public static void main(String[] args)

{
    int[][] x = new int[2][4];
    x[0]= new int[]{2,4,6,8};
    x[1]= new int[]{2,4};
    for(int[] x1: x)

    {
        for(int x2 :x1)
        {
            System.out.print(x2+" ");
        }
        System.out.println();
    }
}
```

```
1 public class Student
2 □ {
3
     String name;
4
     public Student(String name)
5 ₪
6
        this.name=name;
7
8
  public class Test
0 □ {
     public static void main(String[] args)
1
2 □
3
        Student[] s = new Student[3];
4
        s[1]= new Student("Durga");
5
        s[2]= new Student("Ravi");
6
        for(Student s1: s)
7 ₪
8
           System.out.println(s1.name);
9 0 1
     }
  }
```

What is the output?

A) Durga

IRavi

B) Durga

Ravi

null

- C) Compilation Fails
- D) ArrayIndexOutOfBoundsException
- E) NullPointerException

```
public class Test
   public static void main(String[] args)
   {
                                           UNREACHABLE -
     int[] data={10,20,30,40,50,30};
     int k = 30;
     int count=0;
     for(int x : data)
                                             What is the result?
        if(x!=k)
                                             A) 0
           continue;
          count++;
                                                 Compilation Fails
     System.out.println(count);
public class Test
  public static void main(String[] args)
  {
    int wd = 0;
    String[] days={"sun","mon","wed","sat"};
    for(String s : days)
                                                What is the output?
      switch(s)
         case "sat":
         case "sun":
           wd -= 1; -
           break;
                                                D) Compilation Fails
         case "mon":
           wd++;
         case "wed":
           wd += 2;
    System.out.println(wd);
```

```
public class Test
{
    public static void main(String[] args)
    {
        int[] x= {1,2,3,4,5}
        for(yyy)
        {
            System.out.print(a[i]);
        }
    }
    Which option can replace yyy to enable the code to print 135?

A) int i=0;i<=4;i++
    B) int i=0;i<5;i+=2
    C) int i=1;i<=5;i++
    D) int i=1;i<5;i+=2</pre>
```