## **Core Java**

Date:22-July-2022

Consider the following code snippet
 Exercise: What output do you think the code will produce if number is 3?

## Input

```
package Core_Java.Day3;
class Number{
      void number function(){
           int number1 = 3;
           if(number1 >= 0)
               if(number1 == 0)
                   System.out.println("First");
               else
                   System.out.println("Second");
           System.out.println("Third");
       }
}
public class Day_Task_1 {
   public static void main(String[] args) {
       Number class object = new Number();
       class object.number function();
   }
```

## Output

Second Third 2. Using only spaces and line break, {,} to reformat the above code

```
package Core Java.Day3;
class Number{
       void number function(){
           int number1 = 3;
           if(number1 >= 0)
               if(number1 == 0)
                   System.out.println("First");
               else
                   System.out.println("Second");
           System.out.println("Third");
       }
}
public class Day Task 1 {
  public static void main(String[] args) {
       Number class object = new Number();
       class object.number function();
}
```

Convert the following if-else if code into switch case: for temperature if(var==1)

```
System.out.println("low");
else if(var==2)
System.out.println("medium");
else if(var==3)
System.out.println("high");
else
System.out.println("abnormal");
```

medium

break; Case 2: x = x + 6;

break;

}

System.out.println("X = "+x);

4. Rewrite the following code using suitable 'if' command switch(m){
 Case 0:
 x = x + 2;
 System.out.println("X = "+x);
 break;
 Case 1:
 x = x + 4;
 System.out.println("X = "+x);

### Code

```
package Core Java.Day3;
class If Else Operations {
void if else() {
int number = 1, x = 1;
if( number == 0 ) {
x = x + 2;
System.out.println("X = "+x);
}
else if ( number == 1 ) {
x = x + 4;
System.out.println("X = "+x);
}
else if ( number == 2 ) {
x = x + 6;
System.out.println("X = "+x);
}
}
public class If Else To Switch {
public static void main(String[] args) {
If Else Operations if else object = new If Else Operations();
if else object.if else();
}
}
```

# Output

X = 5

5. Take two int values from the user and print the greatest among them

```
package Core_Java.Day3;
import java.util.Scanner;

class Greater_Number_Two {
   int greatest_number(int num1, int num2) {
      if( num1 > num2 )
          return num1;
      else
```

```
return num2;
}

public class Greatest_Number {
    public static void main(String[] args) {
        int num1, num2;
        Scanner sr = new Scanner(System.in);
        System.out.println("Enter the two numbers :");
        num1 = sr.nextInt();
        num2 = sr.nextInt();
        Greater_Number_Two greater_object = new Greater_Number_Two();
        System.out.println("Greater of "+num1+" and "+num2+" is
"+greater_object.greatest_number(num1, num2));
    }
}
```

```
Enter the two numbers:
8
3
Greater of 8 and 3 is 8
```

6. Take input of the age of 3 people by user and determine oldest and youngest among them. (by applying age criteria)

```
else
System.out.println("Youngest age is : "+age2);
else if ( age2 > age1 && age2 > age3 ) {
System.out.println("Oldest age is : " + age2);
if( age1 > age3)
System.out.println("Youngest age is : "+age3);
else
System.out.println("Youngest age is : "+age1);
}
else if ( age3 > age1 && age3 > age2 ) {
System.out.println("Oldest age is : " + age3);
if( age1 > age2)
System.out.println("Youngest age is : "+age2);
else
System.out.println("Youngest age is : "+age1);
}
}
}
public class Age {
public static void main(String[] args) {
Age Operation age object = new Age Operation();
age_object.age_operation();
}
}
```

```
Enter the age of each person:
78
12
53
Oldest age is: 78
Youngest age is: 12
```

- 7. Perform the below operations
  - a. Print below data: using any loop and jumping statement

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

- b. Out of 7 days in a week, skip only Today's day.
- c. Out of 31, print date till today (passed till current date like for Jan 1-20 as today is 20th jan)

```
package Core Java.Day3;
public class Days {
String[] week = { "Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday", "Sunday");
public void print week days() {
for (String day: week) {
System.out.println(day);
public void print day skip() {
for (String day: week) {
if (day == "Friday")
continue;
System.out.println(day);
public void date of month(int current date) {
for(int i = 1; i <= current date; i++)</pre>
System.out.println("July "+ i);
System.out.println("Today is "+ current date + "July");
```

```
public static void main(String[] args) {
    Days object1 = new Days();
    object1.print_week_days();
    System.out.println("\n");
    object1.print_day_skip();
    System.out.println("\n");
    object1.date_of_month(22);
}
```

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

Monday

Tuesday

Wednesday

Thursday

Saturday

Sunday

July 1

July 2

July 3

July 4

July 5

July 6

July 7

July 8

July 9

July 10

July 11

```
July 12
July 13
July 14
July 15
July 16
July 17
July 18
July 19
July 20
July 21
July 22
Today is 22July
```

#### 8. Star Pattern

#### Code

```
package Core_Java.Day3;

public class Star_Pattern1 {
   public static void main(String[] args) {
      for ( int i = 0 ; i < 5 ; i++ ) {
        for ( int j = 0 ; j <= i ; j++ ) {
            System.out.print("*");
        }
        System.out.println(" ");
      }
   }
}</pre>
```

# Output:

```
*
**
**
**
***
```