



# **Java** Methods

## **Assignment Questions**

**Q1.** Write a method to print squares of the first n natural numbers, taking n as an argument to the method.

```
package Method;

import java.util.Scanner;
class Squire
{
    void squaring(int n)
    {
        System.out.println("Square : "+(n*n));
    }
}

class SquareN
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter a value");
        int n=sc.nextInt();
        Squire sq=new Squire();
        sq.squaring(n);
        sc.close();
    }
}
```

**Q2.** Write a method that takes the radius of a circle as an argument and returns its area.

```
package Method;

import java.util.Scanner;
```

```
// Write a method that takes the radius of a circle as an argument and  
returns its area
```

```
class CalAreaCircle  
{  
    double AreaC(float rad)  
    {  
        double Area=3.14*rad*rad;  
        return Area;  
    }  
}  
  
class AreaCircleMethod  
{  
    public static void main(String[] args)  
    {  
        Scanner sc=new Scanner(System.in);  
        System.out.print("Enter a radius : ");  
        float r=sc.nextInt();  
        CalAreaCircle cac=new CalAreaCircle();  
        System.out.println("Area of circle : "+cac.AreaC(r));  
    }  
}
```

**Q3.** Given two numbers a and b, write a method to print all odd numbers between them.

```
package Method;
```

```
import java.util.Scanner;
// Given two numbers a and b, write a method to print all odd numbers
between them.
class OddNum
{
    void odd(int x,int y)
    {
        for(int i=x;i<=y;i++)
        {
            if(i%2 !=0)
                System.out.print(i+" ");
        }
    }
}
public class OddBetNumber
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter two number : ");
        int a=sc.nextInt();
        int b=sc.nextInt();

        OddNum on=new OddNum();
        on.odd(a, b);//.....

    }
}
```

**Q4.** Write a method to count the number of digits in a number and then print the square of this number.

```
package Method;

// Write a method to count the number of digits in a number and then
// print the square of this number.

import java.util.Scanner;

class DS
{
    int c=0;
    int count_square(int n)
    {
        while (n != 0)
        {
            n=n/10;
            c++;
        }
        return (c*c);
    }
}

public class DigitSquare
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter a number : ");
        int a=sc.nextInt();
        DS d=new DS();
        System.out.println("Square : "+d.count_square(a));
    }
}
```



**Q5. State True and False:**

A method may be called more than once from any other method.

**True**

It is necessary for a method to return some value.

**False**

**Q6. Explore:**

Can the same method name be used for different methods without any conflict?

**Ans:**

The same method name can't be used for different methods because it creates confusion for JVM to call the method.



**THANK  
YOU !**

