

## Assignment -4

1) Random generation of months

```
import java.util.*;  
class randomMonth
```

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

```
{  
    Scanner sc = new Scanner (System.in);
```

```
    String [] arr = {"January", "February", "March",  
                    "April", "May", "June",  
                    "July", "August", "September",  
                    "October", "November", "December"};
```

```
    Random rand = new Random();
```

```
    int val = rand.nextInt(12)
```

```
    System.out.println ("The Random number is: +(val+1)");
```

```
    System.out.println ("The month is: " + arr[val]);
```

```
    }  
}
```

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2) Random coordinates within a rectangle:

```
import java.util.*;  
import java.lang.*;
```

```
class rectangle
```

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

```
{  
    Scanner x = new Scanner (System.in);
```

```
    int min-width = -25, max-width = 25,  
        min-height = -15, max-height = 15;
```

```
    System.out.println ("Random co ordinates :");
```

```
    for (int i = 0; i < 5; i++)
```

```
    {  
        int a = (int) ((Math.random() * (max-width - min-width)  
            + min-width);
```

```
        int b = (int) ((Math.random() * (max-height - min-height)  
            + min-height);
```

```
        System.out.println ("The Random : " + a + ", " + b + "  
            coordinate
```

```
    }  
}
```