

CS23333-Object Oriented Programming Using Java-2023

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Started	Saturday, 5 October 2024, 8:54 PM
Completed	Saturday, 5 October 2024, 9:51 PM
Duration	57 mins 38 secs

Question **1**

Correct

Marked out of 5.00

 Flag question

Write a Java program to input a number from user and print it into words using for loop. How to display number in words using loop in Java programming.

Logic to print number in words in Java programming.

Example

Input

1234

Output

One Two Three Four

Input:

16

Output:

one six

For example:

Test	Input	Result
1	45	Four Five
2	13	One Three
3	87	Eight Seven

Answer: (penalty regime: 0 %)

```
1 import java.util.Scanner;
2 public class numwords{
3     public static void main(String[] args){
4         String[] words={"Zero","One","Two","Three","Four","Five","Six","Seven","Eight","Nine"};
5         Scanner s=new Scanner(System.in);
6
7         int number=s.nextInt();
8         String numstr=Integer.toString(number);
9         for(int i=0;i<numstr.length();i++){
10             char digit=numstr.charAt(i);
11             int digitvalue=Character.getNumericValue(digit);
12             System.out.print(words[digitvalue] +" ");
13         }
14     }
15 }
```


	Test	Input	Expected	Got
	1	45	Four Five	Four Five
	2	13	One Three	One Three
	3	87	Eight Seven	Eight Seven

Passed all tests!

Question **2**

Correct

Marked out of 5.00

 Flag question

You have recently seen a motivational sports movie and want to start exercising regularly. Your coach tells you that it is important to get up early in the morning to exercise. She sets up a schedule for you:

On weekdays (Monday - Friday), you have to get up at 5:00. On weekends (Saturday & Sunday), you can wake up at 6:00. However, if you are on vacation, then you can get up at 7:00 on weekdays and 9:00 on weekends.

Write a program to print the time you should get up.

Input Format

Input containing an integer and a boolean value.

The integer tells you the day it is (1-Sunday, 2-Monday, 3-Tuesday, 4-Wednesday, 5-Thursday, 6-Friday, 7-Saturday). The boolean is true if you are on vacation and false if you're not on vacation.

You have to print the time you should get up.

Example Input:

1 false

Output:

6:00

Example Input:

5 false

Output:

5:00

Example Input:

1 true
Output:
9:00

For example:

Input	Result
1 false	6:00
5 false	5:00
1 true	9:00

Answer: (penalty regime: 0 %)

```
1 import java.util.Scanner;
2 public class wakeup{
3     public static void main(String[] args){
4         Scanner s=new Scanner(System.in);
5         int day=s.nextInt();
6         boolean vacation=s.nextBoolean();
7         if(vacation){
8             if (day==1||day==7){
9                 System.out.println("9:00");
10            }
11        }
12        else{
13            System.out.println("7:00");
14        }
15    }
16 }
17 else{
18     if(day==1||day==7){
19         System.out.println("6:00");
20     }
21     else{
22         System.out.println("5:00");
23     }
24 }
25 }
26 }
27 }
28 }
```

Input	Expected	Got
1 false	6:00	6:00
5 false	5:00	5:00
1 true	9:00	9:00

Passed all tests!

Question **3**

Correct

Marked out of 5.00

Flag question

Consider a sequence of the form 0, 1, 1, 2, 4, 7, 13, 24, 44, 81, 149...

Write a method program which takes as parameter an integer n and prints the nth term of the above sequence. The nth term will fit in an integer value.

Example Input:

5

Output:

4

Example Input:

8

Output:

24

Example Input:

11

Output:

149

For example:

Input	Result
5	4
8	24
11	149

Answer: (penalty regime: 0 %)

```
1 import java.util.Scanner;
2 class seq{
3     int a;
4     int b;
5     int c;
6     seq(int a,int b,int c){
7         this.a=a;
8         this.b=b;
9         this.c=c;
10    }
11 }
12 int nth(int x){
13     if(x==1){
14         return 0;
15     }
16     else if(x==2&& x==3){
17         return 1;
```

```

18     }
19     }
20     else{
21         int tem1,tem2,tem;
22         int count=4;
23         while(x>=count){
24             tem=this.a+this.b+this.c;
25             tem1=this.c;
26             this.c=tem;
27             tem2=this.b;
28             this.b=tem1;
29             this.a=tem2;
30             count++;
31         }
32         return this.c;
33     }
34 }
35 public class Main{
36     public static void main(String[]args){
37         Scanner s=new Scanner(System.in);
38         int t=s.nextInt();
39         seq r=new seq(0,1,1);
40         System.out.println(r.nth(t));
41     }
42 }

```

	Input	Expected	Got
	5	4	4
	8	24	24
	11	149	149

Passed all tests!

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