JAVA Logic Placement Preparation Test 1

PRN : 030

Q1. Accept a number from user - if it is divisible by 3 print “fun” , if it is divisible by 7 print “buzz” and if it is divisible by both(3,7) print “fun -buzz” . [Two answer]

=>

```
package java_logic;

import java.util.Scanner;

public class Divisible_By {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);

		System.out.print("Enter a number : ");

		int num = sc.nextInt();

		//ans1(num);

		ans2(num);

	}

	static void ans1(int num) {

		if(num%3==0 && num%7==0) {

			System.out.println("fun buzz");

		}

		else if(num%3==0) {

			System.out.println("fun");

		}

		else if(num%7==0) {

			System.out.println("buzz");

		}


	}
```

```
	static void ans2(int num) {
		// reduce in line of code
				if(num%3==0) {
					System.out.println("fun");
				}
				if(num%7==0) {
					System.out.println("buzz");
				}
	}


}
```

Q2. Accept a start number from user and end number from user. Print all odd number between start and end number. [Two Answer]

=>

```
package java_logic;
import java.util.Scanner;
public class Print_Odd_Number_Start_End {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.print("Enter a  start number : ");
		int start = sc.nextInt();
		System.out.print("Enter a end number : ");
		int end = sc.nextInt();
		//ans1(start,end);
		ans2(start,end);

	}
```

```
static void ans1(int start, int end) {
		for(int i=start;i<=end;i++) {
		if(i%2!=0) {
			System.out.println(i);
		}
	}
	}

	static void ans2(int start, int end) {
		// optimized
				boolean b = isOdd(start);
				if(b==false)
					start=start+1;
				for(int i=start; i<=end;i=i+2) {
					System.out.println(i);
				}

	}
	static boolean isOdd(int n) {
		return n%2!=0;
	}

}
```

Q3. Accept a number from user and check if it is palindrome number or not eg (121)

=>

```
package java_logic;
import java.util.Scanner;
public class Palindrome_Number {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.print("Enter a number : ");
		int num = sc.nextInt();
		int temp=num;
		int rev=0;
		while(temp>0) {
			int digit = temp%10;
			rev = rev*10+digit;
			temp=temp/10;
		}
		if(rev==num) {
			System.out.println("is palindrome");
		}
		else {
			System.out.println("not a palindrome");
		}

	}

}
```

Q4. Accept a term from user and print Fibonacci series.

=>

```
package java_logic;
import java.util.Scanner;
public class Fibo {
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter a number of terms :");
		int n = sc.nextInt();
		FiboSeries(n);

	}
	static void FiboSeries(int n) {
		int n1=0,n2=1;
		System.out.print(n1+" "+n2);
		if(n>2) {
			for(int i=1;i<=n-2;i++) {
				int n3=n1+n2;
				System.out.print(" "+n3);
				n1=n2;
				n2=n3;
			}
		}
	}

}
```