

//Question 1: FizzBuzz

Write a program that prints the numbers from 1 to 100. For multiples of 3, print "Fizz"; for multiples of 5, print "Buzz"; and for numbers that are multiples of both 3 and 5, print "FizzBuzz".

```
public class FizzBuzz{  
    public static void main(String args[]){  
        for (int a=1;a<=100;a++){  
            if(a%3==0){system.out.println("Fizz");}  
            else if(a%5==0){system.out.println("Buzz");}  
            else if(a%3==0&&a%5==0){system.out.println("FizzBuzz");}  
            else{system.out.println(a);}  
        }  
    }  
}
```

//Question 2: Fibonacci Sequence

Write a program to generate the Fibonacci sequence up to 100.

```
public class Fibonacci_sequence{  
    public static void main(String args[]){  
        int max=100;  
        int x=0;  
        int y=1;  
        system.out.println("FibonacciSequence up to:"+max);  
        while(x<=100){  
            int sum=x+y;  
            x=y;  
            y=sum;}  
    }  
}
```



```
}  
}
```

//Question 3: Power of Two

Write a program that takes an integer as input and returns true if the input is a power of two.

Examples:

8=> returns true

6=> returns false

```
public class PowerOfTwo{  
    int number;  
    PowerOfTwo(int n){n=number;}  
    void power(){system.out.println("enter a number:"+n);}  
    if(n is powerof2){system.out.println("true");}  
    else{system.out.println("false");}  
    public static void main{string args[]}  
    PowerOfTwo obj=new PowerOfTwo(8);  
    obj.power();  
}  
}
```

//Question 4: Capitalize Words

Write a program that accepts a string as input, capitalizes the first letter of each word in the string, and then returns the result string.

Examples:



"hi"=> returns "Hi"

"i love programming"=> returns "I Love Programming"

```
public class CapitaliseWords{  
    string words;  
    CapitaliseWords(string a){a=words;}  
    void capitalise(){  
        system.out.println(capitalise"hi");  
        system.out.println(capitalise"i love Programming");}  
    public static void main{string args[]{  
        CapitaliseWords obj=new CapitaliseWords();  
        obj.capitalise();  
    }  
}
```

//Question 5: Reverse Integer

Write a program that takes an integer as input and returns an integer with reversed digit ordering.

Examples:

For input 500, the program should return 5.

For input -56, the program should return -65.

For input -90, the program should return -9.

For input 91, the program should return 19.

```
public class Reverse{  
    int number;
```



```

Reverse(int x){x=number;}

void reversal(){return (reverse(x));}

system.out.println("enter a number"+x);

public static void main{string args[]{

Reverse obj=new Reverse(x);

obj.reversal();

}

}

```

//Question 6: Count Vowels

Write a program that counts the number of vowels in a sentence.

eg " Hello World " => returns 2

```

public class CountVowel{

char vowels;

CountVowel(){vowels='a','e','i','o','u';}

void vowelCounter(){count(vowels in a string);}

system.out.println("enter a string:");

public static void main{string args[]{

CountVowel obj=new CountVowel("Hello World");

obj.vowelCounter();

}

}

```

