Question 1

```
import java.util.Scanner;
public class divisibility
{
	public static void main(String args[])
	{
		int number;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number");
		number=input.nextInt();
		if(number%5==0)
			System.out.println("Is the number "+number+"divisible by 5? Yes");
		else
			System.out.println("Is the number "+number+"divisible by 5? No");
	}
}
```

Question 2

```
import java.util.Scanner;
public class smallestno
{
	public static void main(String args[])
	{
		int number1,number2,number3;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter 3 integers");
		number1=input.nextInt();
		number2=input.nextInt();
		number3=input.nextInt();
		if(number1<number2 && number1<number3)
		System.out.println("Is the first number the smallest? Yes");
		else
			System.out.println("Is the first number the smallest? No");
	}
}
```

Question 3

```
import java.util.Scanner;
public class largestno
{
	public static void main(String args[])
	{
```

```
		int number1,number2,number3;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter 3 integers");
		number1=input.nextInt();
		number2=input.nextInt();
		number3=input.nextInt();
		if(number1>number2 && number1>number3)
		System.out.println("Is the first number the largest? Yes\n"+"Is the second number
the largest? No\n"+"Is the third number the largest? No");
		else if(number2>number1 && number2>number3)
		System.out.println("Is the first number the largest? No\n"+"Is the second number
the largest? Yes\n"+"Is the third number the largest? No");
		else if(number3>number1 && number3>number2)
		System.out.println("Is the first number the largest? No\n"+"Is the second number
the largest? No\n"+"Is the third number the largest? Yes");
	}
}
```

Question 4

```
import java.util.Scanner;
public class naturalno
{
	public static void main(String args[])
	{
		int number;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number");
		number=input.nextInt();
		if(number>=0)
		{
			int sum=number*(number+1)/2;
			System.out.println("The sum of "+number+" natural numbers is "+sum);
		}
		else
		{
			System.out.println("The number "+number+" is not a natural number");
		}
	}
}
```

Question 5

```
import java.util.Scanner;
```

```
public class voteeligibility
{
	public static void main(String args[])
	{
		int age;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter the age");
		age=input.nextInt();
		if(age>=18)
			System.out.println("The person's age is "+age+" and can vote");
		else
			System.out.println("The person's age is "+age+" and cannot vote");
	}
}
```

Question 6

```
import java.util.Scanner;
public class check
{
	public static void main(String args[])
	{
		int number;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter the number");
		number=input.nextInt();
		if(number>=1)
			System.out.println(number+" is positive");
		else if(number<0)
			System.out.println(number+" is negative");
		else if(number==0)
			System.out.println(number+" is zero");
	}
}
```

Question 7

```
import java.util.Scanner;
public class SpringSeason
{
	public static void main(String args[])
	{
		int month,day;
		Scanner input = new Scanner(System.in);
```

```
                System.out.println("Enter the month and day of the year");
                month=input.nextInt();
                day=input.nextInt();
                if(day==20)
                {
                        if(month==3 || month==4 || month==5 || month==6)
                                System.out.println("It's a Spring Season");
                }
                else
                {
                        System.out.println("Not a Spring Season");
                }
        }
}
```

Question 8

```
import java.util.Scanner;
public class count
{
        public static void main(String args[])
        {
                int number;
                Scanner input = new Scanner(System.in);
                System.out.println("Enter the number");
                number=input.nextInt();
                while(number>=1)
                {
                        System.out.println(number--);
                }
        }
}
```

Question 9

```
import java.util.Scanner;
public class countdown
{
        public static void main(String args[])
        {
                int number;
                Scanner input = new Scanner(System.in);
                System.out.println("Enter the number");
                number=input.nextInt();
```

```
		for(int i=number;i>=1;i--)
		{
			System.out.println(i);
		}
	}
}
```

Question 10

```
import java.util.Scanner;
public class sumofnumbers
{
	public static void main(String args[])
	{
		int number;
		double total=0.0;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number");
		number=input.nextInt();
		while(number!=0)
		{
			total+=number;
			System.out.println("Enter a number");
			number=input.nextInt();
		}
		System.out.println("Sum of the numbers are "+total);
	}
}
```

Question 11

```
import java.util.Scanner;
public class negativeno
{
	public static void main (String args[])
	{
		int number;
		double total=0.0;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number");
		number=input.nextInt();
		while(true)
		{
			if(number<=0)
```

```
                        break;
                    else
                    {
                        total+=number;
                        System.out.println("Enter a number");
                        number=input.nextInt();
                    }
                }
                System.out.println("Sum of the numbers are "+total);
        }
}
```

Question 12

```
import java.util.Scanner;
public class sum
{
        public static void main(String args[])
        {
                int number,sum=0,total=0,i=0;
                Scanner input = new Scanner(System.in);
                System.out.println("Enter a number");
                number=input.nextInt();
                if(number>=0)
                {
                        sum=number*(number+1)/2;
                        while(i<=number)
                        {
                                total+=i;
                                i++;
                        }
                        if(sum==total)
                                System.out.println("Looped sum and formulated sum are same
and is "+total);
                }
                else
                        System.out.println("Looped sum "+total+" and formulated sum "+sum+"
are different");
        }
}
```

Question 13

```
import java.util.Scanner;
```

```
public class sum
{
	public static void main(String args[])
	{
		int number,sum=0,total=0,i;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter a number");
		number=input.nextInt();
		if(number>=0)
		{
			sum=number*(number+1)/2;
			for(i=0;i<=number;i++)
				total+=i;
			if(sum==total)
				System.out.println("Looped sum and formulated sum are same
and is "+total);
		}
		else
			System.out.println("Looped sum "+total+" and formulated sum "+sum+"
are different");
	}
}
```

Question 14

```
import java.util.Scanner;
public class factorial
{
	public static void main(String args[])
	{
		int number,fact=1,i;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter the number");
		number=input.nextInt();
		i=number;
		if(number>0)
		{
			while(i>=1)
			{
				fact*=i;
				i--;
			}
			System.out.println("Factorial="+fact);
		}
```

```
	}
}
```

Question 15

```
import java.util.Scanner;
public class factorial
{
	public static void main(String args[])
	{
		int number,fact=1;
		Scanner input = new Scanner(System.in);
		System.out.println("Enter the number");
		number=input.nextInt();
		if(number>0)
		{
			for(int i=number;i>=1;i--)
				fact*=i;
			System.out.println("Factorial="+fact);
		}
	}
}
```