Java Assignment

1.
```java
import java.util.*;
public class Class2 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter number");
		int num1 = sc.nextInt();
		System.out.println("The number =" + num1);

	}

}
```

```
Enter number
10
The number =10
```

2.
```java
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter number");
		int num1 = sc.nextInt();
		if(num1>0)
		{
			System.out.println("Positive number");
		}
		else
		{
			System.out.println("Negative number");
		}
	}

}
```

```
Enter number
8
Positive number
```

3.
```java
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the numbers");
		int number1 = sc.nextInt();
		int number2 = sc.nextInt();
		int sum = number1 + number2;
```

```
		System.out.println("Sum of 2 numbers = "+sum);
	}

}
```

```
Enter the numbers
10
20
Sum of 2 numbers = 30
```

4.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {

		char character = 'b';
		int asciiValue = character;
		System.out.println("Ascii value = "+asciiValue);
	}

}
```

```
Ascii value = 98
```

5.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the numbers");
		int number1 = sc.nextInt();
		int number2 = sc.nextInt();
		int multiplication = number1 * number2;
		System.out.println("The multiplication of 2 numbers = "
		+ multiplication);
	}

}
```

```
Enter the numbers
10
20
The multiplication of 2 numbers = 200
```

6.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the numbers");
```

```
		float base = sc.nextFloat();
		float height = sc.nextFloat();
		float area = (base * height)/2;
		System.out.println("The area of triangle = "
		+ area);
	}

}
```

```
Enter the numbers
5
10
The area of triangle = 25.0
```

7.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the number");
		int number = sc.nextInt();
		if(number%2==0)
		{
			System.out.println("Even number");
		}
		else
		{
			System.out.println("Odd number");
		}

	}

}
```

```
Enter the number
5
Odd number
```

8.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the number");
		int number1 = sc.nextInt();
		int number2 = sc.nextInt();
		System.out.println("Numbers before swapping are "+number1
				+number2);
		number1 = number1 + number2;
		number2 = number1 - number2;
		number1 = number1 - number2;
```

```
            System.out.println("Numbers after swapping = "+number1
                        +number2);

      }

}
```

```
Enter the number
10
20
Numbers before swapping are 1020
Numbers after swapping = 2010
```

```
9. package JavaPackage1;
import java.util.*;
public class Class1 {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter the number");
            int number1 = sc.nextInt();
            int number2 = sc.nextInt();
            int number3 = sc.nextInt();
            int maximum = (number1>number2)?(number1>number3?
                        number1:number3)
                        :(number2>number3?number2:number3);
            System.out.println("Largerst number = "+maximum);

      }

}
```

```
Enter the number
10
20
30
Largerst number = 30
```

```
10. package JavaPackage1;
import java.util.*;
public class Class1 {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter the number");
            int number1 = sc.nextInt();
            int number2 = sc.nextInt();
            int number3 = sc.nextInt();

            int minimum = (number1<number2)?(number1<number3?
                        number1:number3)
                        :(number2<number3?number2:number3);
            System.out.println("Smallest number = "+minimum);

      }
```

```
}
```

```
Enter the number
10
25
5
Smallest number = 5
```

11.
```
package JavaPackage1;
import java.util.*;
public class Class1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the number");
		int number1 = sc.nextInt();
		int number2 = sc.nextInt();
		int number3 = sc.nextInt();

		if(number1>=number2 && number1>=number3)
		{
			System.out.println("Largest number = "+number1);
		}
		else if(number2>=number1 && number2>=number3)
		{
			System.out.println("Largest number = "+number2);
		}
		else
		{
			System.out.println("Largest number = "+number3);
		}

	}

}
```

```
Enter the number
10
5
25
Largest number = 25
```

12.
```
package JavaPackage1;
import java.util.*;
public class Class3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the character");
		char char1 = sc.next().charAt(0);
		switch (char1) {
		case 'a':System.out.println("Vowel");break;
```

```
            case 'e':System.out.println("Vowel");break;
            case 'i':System.out.println("Vowel");break;
            case 'o':System.out.println("Vowel");break;
            case 'u':System.out.println("Vowel");break;
            default:System.out.println("Consonent");
            }


      }

}
```

```
Enter the character
b
Consonent
```

```
13. package JavaPackage1;
import java.util.*;
public class Class3 {

      public static void main(String[] args) {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter 2 numbers");
            int num1 = sc.nextInt();
            int num2 = sc.nextInt();
            System.out.println("Enter the operator");
            char char1 = sc.next().charAt(0);
            int output;
            switch (char1) {
            case '+':
                  output = num1 + num2;
                  System.out.println("Addition = "+output);break;
            case '-':
                  output = num1 - num2;
                  System.out.println("Subtraction = "+output);break;
            case '/':
                  output = num1 / num2;
                  System.out.println("Division = "+output);break;
            case '%':
                  output = num1 % num2;
                  System.out.println("Modulus = "+output);break;

            default:
                  output = num1 * num2;
                  System.out.println("Multiplication = "+output);
            }


      }

}
```

```
Enter 2 numbers
10
5
Enter the operator
```

*
Multiplication = 50