Control Statements

```
public class Eg1 {

	public static void main(String[] args) {

		if (true) {
			System.out.println("Condition Checked"); // Condition Checked
		}

		System.out.println("Main Method");
	}
}
```

```
public class Eg2 {

	public static void main(String[] args) {

		if (false) {
			System.out.println("Condition Checked"); // Dead code
		}

		System.out.println("Main Method"); // Main Method
	}
}
```

Sajeed

```java
/if else
public class Eg3 {

	public static void main(String[] args) {

		int a = 10, b = 20;
		if (a < b) {
			System.out.println("Condition Checked"); //Condition Checked
		}else {
			System.out.println("Condition Failed");
		}
	}
}
```

```java
//else if
public class Eg4 {
	public static void main(String[] args) {

		float userSalary = 30000f;
		if (userSalary==10000){
			System.out.println(userSalary);
		}
		else if (userSalary == 20000){
			System.out.println(userSalary);
		}
		else if (userSalary == 30000){
			System.out.println(userSalary);
		}
		else if (userSalary == 40000){
			System.out.println(userSalary);
		} else {
			System.out.println("Salary is out of range");
		}
	}
}
```

Sajeda

```
//switch case
public class Eg5 {

	public static void main(String[] args) {

		int a = 20;
		switch (a) {
		case 10: {
			System.out.println("Case 10");
		}
		case 20: {
			System.out.println("Case 20");
		}
		case 30: {
			System.out.println("Case 30");
		}
		default:
			System.out.println("Default Case");
		}
	}
}
```

```
Case 20
Case 30
Default Case
```

Saieed

```
// switch case
public class Eg6 {

	public static void main(String[] args) {

		int a = 40;
		switch (a) {
		case 10: {
			System.out.println("Case 10");
		}
		case 20+20: {
			System.out.println("Case 20+20");
		}
		case 30: {
			System.out.println("Case 30");
		}
		default:
			System.out.println("Default Case");
		}
	}
}
```

```
Case 20+20
Case 30
Default Case
```

Saieed

```java
//switch case
public class Eg7 {

	public static void main(String[] args) {

		String s1 = "domiar";
		switch (s1) {
		case "domiar":
			System.out.println("400 CC");
			break;
		case "beneli":
			System.out.println("6000 CC");
			break;
		default:
			System.out.println("Default Case");
			break;
		}
	}
}
```

```
400 CC
```

Sajeed

```
public class Eg8 {

int x; //we get default value

public static void main(String[] args) {

Eg8 e = new Eg8();
e.m1();
}

public void m1() {
int y; //local variable need to initialized //0
System.out.println(x); //0
// System.out.println(y);// The local variable j may not have been initialized
}
}
```

Saieed

```
//Mystery
public class Eg9 {

public static void main(String[] args) {

int x = 10;
int y = 10;
int z;
if (x == y) {
z = 20;
System.out.println(z);// 20
z = 30;
System.out.println(z);// 30
}
// z = 20;
// System.out.println(j); //The local variable j may not have been initialized
}
}
```

Saieed

```
public class Eg10 {

public static void main(String[] args) {

int x = 10;
int y = 10;
int z;
if (true) {
z = 20;
System.out.println(z);// 20
z = 30;
System.out.println(z);// 30
}
z = 40;
System.out.println(z); //The local variable z may not have been initialized
}
}
```

```
public class Eg11 {

public static void main(String[] args) {

int i = 10;
int j;

if(i==10) {
j = 20;
}else {
j = 30;
}
j=40;
System.out.println(j); //40
}
}
```

Sajeed

Sajeed