|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | boolean | char | int | double | String |
| boolean | * It is not legal to use the + operator * You will get a compiler error. | * It is not legal to use the + operator * You will get a compiler error. | * It is not legal to use the + operator * You will get a compiler error. | * It is not legal to use the + operator * You will get a compiler error. | * It is legal to use the + operator * The value of the boolean will be concatenated with the value of the string. * The final data type will be a String. |
| char | * It is not legal to use the + operator * You will get a compiler error. | * It is legal to use the + operator * The value of the 1st char will be concatenated with the value of the 2nd char. * The data type of the final value will be a String. | * It is legal to use the + operator * The number value of the char will be added to the value of the integer * The data type of the final value will be an int. | * It is legal to use the + operator * The number value of the char will be added to the value of the double * The data type of the final value will be a double. | * It is legal to use the + operator * The value of the char will be concatenated to the start of the String * The data type of the final value will be a String. |
| int | * It is not legal to use the + operator * You will get a compiler error. | * It is legal to use the + operator * The number value of the char will be added to the value of the integer * The data type of the final value will be an int. | * It is legal to use the + operator * The two ints will be added together and a new int will be created with the new value. * The data type of the final value will be an int. | * It is legal to use the + operator * The value of the int will be added to the value of the double * The data type of the final value will be a double. | * It is legal to use the + operator * The value of the int will be concatenated to the start of the String * The data type of the final value will be a String. |
| double | * It is not legal to use the + operator * You will get a compiler error. | * It is legal to use the + operator * The number value of the char will be added to the value of the double * The data type of the final value will be a double. | * It is legal to use the + operator * The value of the double will be added to the value of the int * The data type of the final value will be a double. | * It is legal to use the + operator * The number value of the 2nd double will be added to the value of the original double * The data type of the final value will be a double. | * It is legal to use the + operator * The double will be concatenated on to the start of the String * The data type of the final value will be a String. |
| String | * It is legal to use the + operator * The value of the boolean will be concatenated with the value of the string. * The final data type will be a String. | * It is legal to use the + operator * The value of the char will be concatenated with the value of the string. * The final data type will be a String. | * It is legal to use the + operator * The value of the int will be concatenated with the value of the string. * The final data type will be a String. | * It is legal to use the + operator * The value of the double will be concatenated with the value of the string. * The final data type will be a String. | * It is legal to use the + operator * The value of the 1st String will be concatenated with the value of the 2nd String. * The final data type will be a String. |