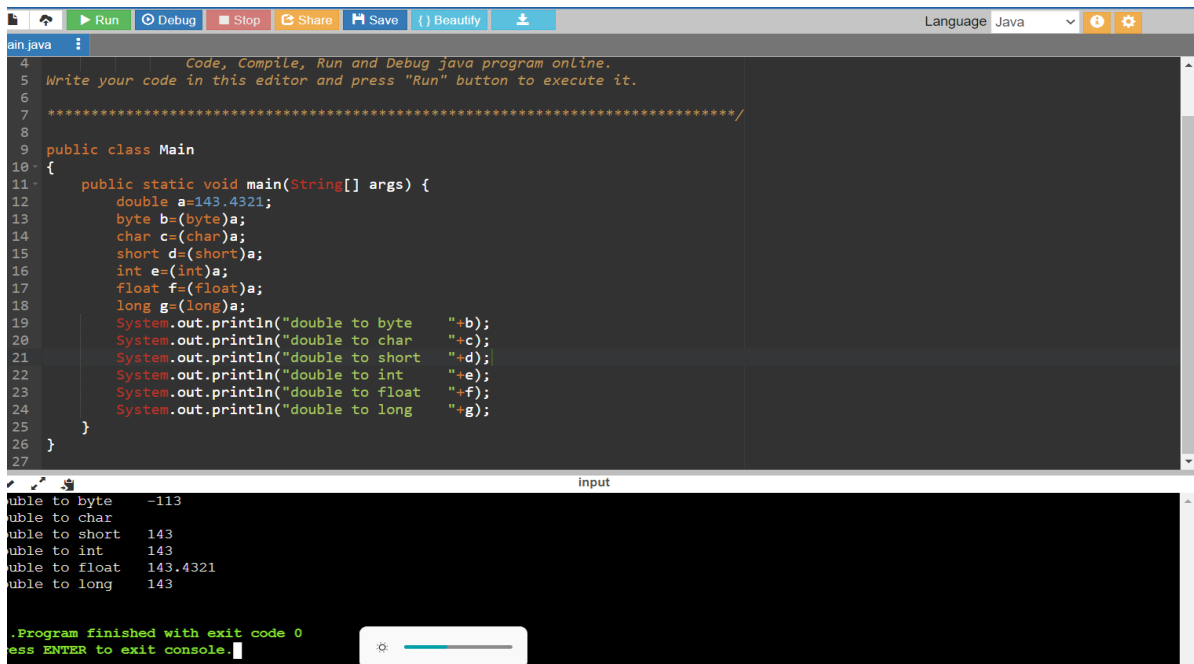


TYPE CASTING

DOUBLE TO OTHER TYPES



The screenshot shows an online Java IDE with a code editor and a console output. The code defines a class `Main` with a `main` method that casts a `double` value `143.4321` to `byte`, `char`, `short`, `int`, `float`, and `long`. The console output shows the results of these casts.

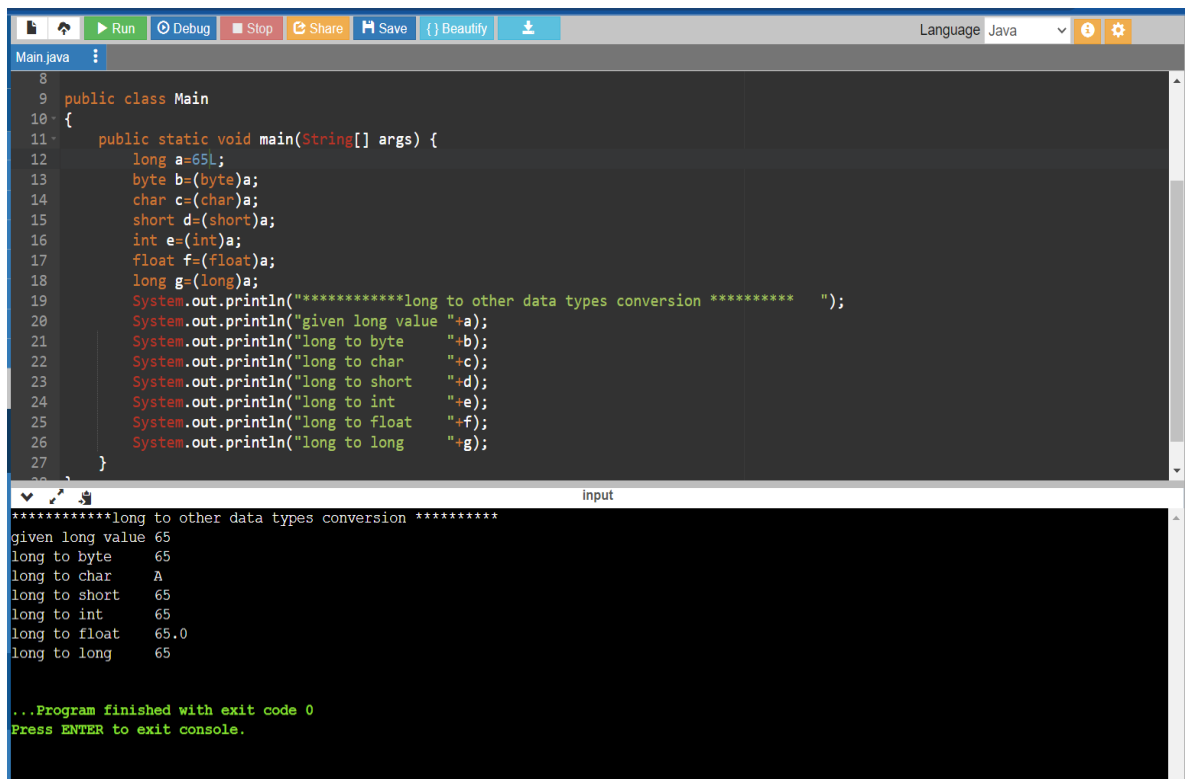
```
4 Code, Compile, Run and Debug java program online.
5 Write your code in this editor and press "Run" button to execute it.
6
7 *****/
8
9 public class Main
10 {
11     public static void main(String[] args) {
12         double a=143.4321;
13         byte b=(byte)a;
14         char c=(char)a;
15         short d=(short)a;
16         int e=(int)a;
17         float f=(float)a;
18         long g=(long)a;
19         System.out.println("double to byte    "+b);
20         System.out.println("double to char   "+c);
21         System.out.println("double to short "+d);
22         System.out.println("double to int   "+e);
23         System.out.println("double to float  "+f);
24         System.out.println("double to long   "+g);
25     }
26 }
27
```

input

```
double to byte    -113
double to char    143
double to short    143
double to int      143
double to float    143.4321
double to long     143

...Program finished with exit code 0
Press ENTER to exit console.
```

LONG TO OTHER DATA TYPES CASTING



The screenshot shows an online Java IDE with a code editor and a console output. The code defines a class `Main` with a `main` method that casts a `long` value `65` to `byte`, `char`, `short`, `int`, `float`, and `long`. The console output shows the results of these casts.

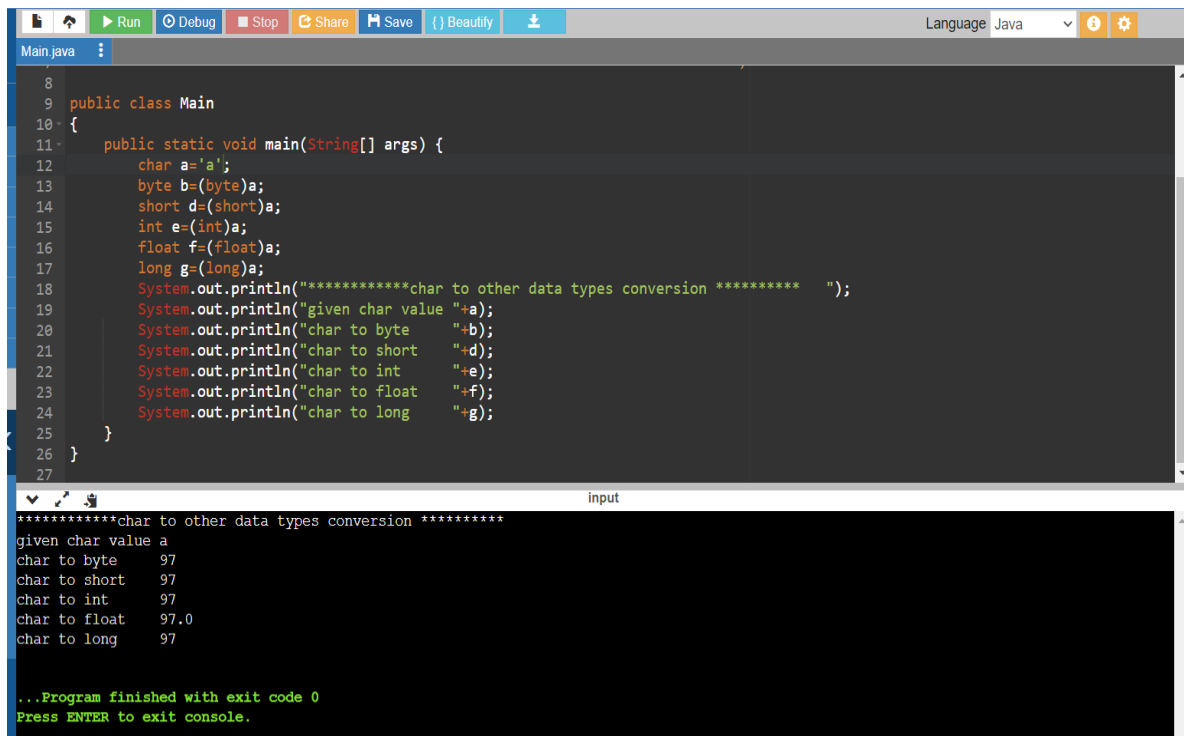
```
8
9 public class Main
10 {
11     public static void main(String[] args) {
12         long a=65L;
13         byte b=(byte)a;
14         char c=(char)a;
15         short d=(short)a;
16         int e=(int)a;
17         float f=(float)a;
18         long g=(long)a;
19         System.out.println("*****long to other data types conversion ***** ");
20         System.out.println("given long value "+a);
21         System.out.println("long to byte    "+b);
22         System.out.println("long to char    "+c);
23         System.out.println("long to short   "+d);
24         System.out.println("long to int     "+e);
25         System.out.println("long to float   "+f);
26         System.out.println("long to long    "+g);
27     }
28 }
29
```

input

```
*****long to other data types conversion *****
given long value 65
long to byte     65
long to char     A
long to short    65
long to int      65
long to float    65.0
long to long     65

...Program finished with exit code 0
Press ENTER to exit console.
```

CHAR TO OTHER DATA TYPES CASTING



```
8
9 public class Main
10 {
11     public static void main(String[] args) {
12         char a='a';
13         byte b=(byte)a;
14         short d=(short)a;
15         int e=(int)a;
16         float f=(float)a;
17         long g=(long)a;
18         System.out.println("*****char to other data types conversion ***** ");
19         System.out.println("given char value "+a);
20         System.out.println("char to byte      "+b);
21         System.out.println("char to short   "+d);
22         System.out.println("char to int    "+e);
23         System.out.println("char to float  "+f);
24         System.out.println("char to long   "+g);
25     }
26 }
27
```

input

```
*****char to other data types conversion *****
given char value a
char to byte      97
char to short     97
char to int       97
char to float     97.0
char to long      97

...Program finished with exit code 0
Press ENTER to exit console.
```

FLOAT TO OTHER DATA TYPES CASTING



```
public class main {
    public static void main(String[] args) {

        float f=117;
        byte b=(byte)f;
        char c=(char)f;
        short s=(short)f;
        int i=(int)f;
        long l=(long)f;
        double d=(double)f;

        System.out.println("float to byte      "+b);
        System.out.println("float to char      "+c);
        System.out.println("float to short    "+s);
        System.out.println("float to int      "+i);
        System.out.println("float to long     "+l);
        System.out.println("float to double   "+d);
    }
}
```

float to byte	117	float to char	u
float to short	117	float to int	117
float to long	117	float to double	117.0

FLOAT TO OTHER DATA TYPES CASTING

```
public class main {
    public static void main(String[] args) {

        float f=117;
        byte b=(byte)f;
        char c=(char)f;
        short s=(short)f;
        int i=(int)f;
        long l=(long)f;
        double d=(double)f;

        System.out.println("float to byte    "+b);
        System.out.println("float to char    "+c);
        System.out.println("float to short   "+s);
        System.out.println("float to int    "+i);
        System.out.println("float to long    "+l);
        System.out.println("float to double   "+d);
    }
}
```

float to byte	117	float to char	u
float to short	117	float to int	117
float to long	117	float to double	117.0

SHORT TO OTHER DATA TYPES CASTING

```
public class main {
    public static void main(String[] args) {

        short s=333;
        byte b=(byte)s;
        char c=(char)s;
        int i=(int)s;
        float f=(float)s;
        long l=(long)s;
        double d=(double)s;
        System.out.println("short to byte"+b);
        System.out.println("short to char"+c);
        System.out.println("short to int"+i);
        System.out.println("short to float"+f);
        System.out.println("short to long"+l);
        System.out.println("short to double"+d);
    }
}
```

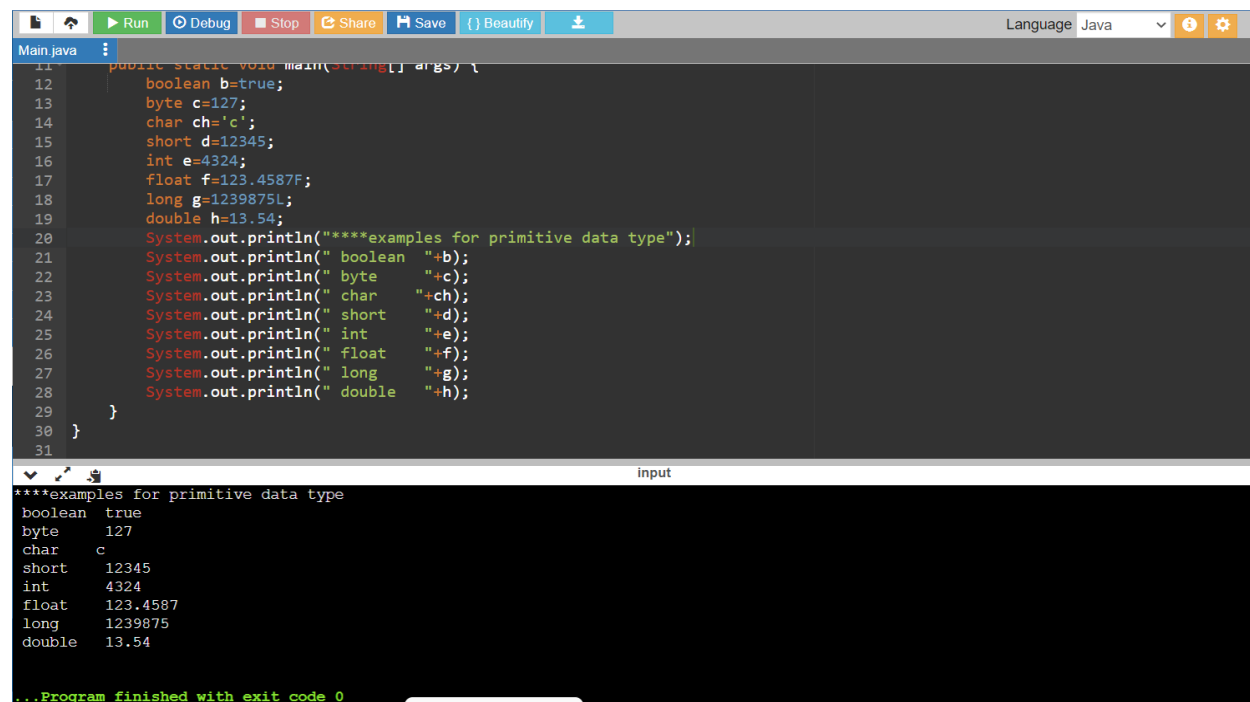
short to byte	7
short to char	?
short to int	333
short to float	333.0
short to long	333
short to double	333.0

INT TO OTHER DATA TYPES CASTING

```
public class main {  
    public static void main(String[] args) {  
  
        int i=117;  
        byte b=(byte)i;  
        char c=(char)i;  
        short s=(short)i;  
        float f=(float)i;  
        long l=(long)i;  
        double d=(double)i;  
        System.out.println("int to byte"+b);  
        System.out.println("int to char"+c);  
        System.out.println("int to short"+s);  
        System.out.println("int to float"+f);  
        System.out.println("int to long"+l);  
        System.out.println("int to double"+d);  
    }  
}
```

int to byte117
int to charu
int to short117
int to float117.0
int to long117
int to double117.0

EXAMPLES FOR PRIMITIVE DATA TYPES



The screenshot shows a Java IDE with a code editor and an output window. The code in the editor defines variables for all primitive data types and prints them. The output window shows the results of these print statements.

```
public static void main(String[] args) {  
    12     boolean b=true;  
    13     byte c=127;  
    14     char ch='c';  
    15     short d=12345;  
    16     int e=4324;  
    17     float f=123.4587F;  
    18     long g=1239875L;  
    19     double h=13.54;  
    20     System.out.println("****examples for primitive data type");  
    21     System.out.println(" boolean "+b);  
    22     System.out.println(" byte "+c);  
    23     System.out.println(" char "+ch);  
    24     System.out.println(" short "+d);  
    25     System.out.println(" int "+e);  
    26     System.out.println(" float "+f);  
    27     System.out.println(" long "+g);  
    28     System.out.println(" double "+h);  
    29 }  
    30 }  
    31 }
```

input

```
****examples for primitive data type  
boolean true  
byte 127  
char c  
short 12345  
int 4324  
float 123.4587  
long 1239875  
double 13.54  
...Program finished with exit code 0
```