## **Tutorial 1:**

Find the Size of the below listed C data types using Size () function.

List of Data types in C
int or signed int
unsigned int
short int or signed short int
unsigned short int
long int or signed long int
unsigned long int
Float
double
long double
char or signed char
unsigned char

## Code:

```
#include <stdio.h>
int main()
   int typeint;
   printf("Size of int or signed int : %ld bytes\n", sizeof(typeint));
   unsigned int typeunsignedint;
   printf("Size of unsigned int
                                               : %ld bytes\n", sizeof(typeunsignedint));
   short int typeshortint;
   printf("Size of short int or signed short int : %ld bytes\n", sizeof(typeshortint));
   unsigned short int typeunsignedshortint;
   printf("Size of unsigned short int
                                                 : %ld bytes\n", sizeof(typeunsignedshortint
));
   long int typelongint;
   printf("Size of long int or signed long int : %ld bytes\n", sizeof(typelongint));
```

```
unsigned long int typeunsignedlongint;
    printf("Size of unsigned long int
                                                 : %ld bytes\n", sizeof(typeunsignedlongint)
);
   float typefloat;
   printf("Size of Float
                                                 : %ld bytes\n", sizeof(typefloat));
   double typedouble;
   printf("Size of double
                                                 : %ld bytes\n", sizeof(typedouble));
   long double typelongdouble;
   printf("Size of long double
                                                 : %ld bytes\n", sizeof(typelongdouble));
    char typechar;
                                                : %ld byte\n", sizeof(typechar));
   printf("Size of char or signed char
   unsigned char typeunsignedchar;
   printf("Size of unsigned char
                                               : %ld byte\n", sizeof(typeunsignedchar));
    return 0;
```

## Output:

```
Size of int or signed int
                                       : 4 bytes
Size of unsigned int
                                       : 4 bytes
Size of short int or signed short int : 2 bytes
Size of unsigned short int
                                       : 2 bytes
Size of long int or signed long int
                                       : 4 bytes
Size of unsigned long int
                                       : 4 bytes
Size of Float
                                       : 4 bytes
Size of double
                                       : 8 bytes
Size of long double
                                       : 12 bytes
Size of char or signed char
                                       : 1 byte
Size of unsigned char
                                       : 1 byte
```

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