

Program:

// Write C program to study different types of datatypes

```
#include<stdio.h>
int main()
{
    printf("-----\n");
    printf("|size of Boolean      : %d |\n",sizeof(_Bool));
    printf("|size of char          : %d |\n",sizeof(char));
    printf("|Size of shorts        : %d |\n",sizeof(short));
    printf("|size of int           : %d |\n",sizeof(int));
    printf("|size of short int     : %d |\n",sizeof(short int));
    printf("|Size of float         : %d |\n",sizeof(float));
    printf("|Size of double        : %d |\n",sizeof(double));
    printf("|size of Long Double   : %d |\n",sizeof(long double));
    printf("|size of long long     : %d |\n",sizeof(long long));
    printf("|size of unsigned char : %d |\n",sizeof(unsigned char));
    printf("|Size of unsigned shorts : %d |\n",sizeof(unsigned short));
    printf("|size of unsigned int   : %d |\n",sizeof(unsigned int));
    printf("|size of unsigned long  : %d |\n",sizeof(unsigned long));
    printf("|size of signed char    : %d |\n",sizeof(signed char));
    printf("|Size of signed shorts  : %d |\n",sizeof(signed short));
    printf("|size of signed int     : %d |\n",sizeof(signed int));
    printf("|size of signed long    : %d |\n",sizeof(signed long));
    printf("-----\n"); return 0;
}
```

Output :

```
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|size of Boolean      : 1 |
|size of char        : 1 |
|Size of shorts      : 2 |
|size of int         : 4 |
|size of short int   : 2 |
|Size of float       : 4 |
|Size of double      : 8 |
|size of Long Double : 12|
|size of long long   : 8 |
|size of unsigned char : 1 |
|Size of unsigned shorts : 2 |
|size of unsigned int : 4 |
|size of unsigned long : 4 |
|size of signed char  : 1 |
|Size of signed shorts : 2 |
|size of signed int   : 4 |
|size of signed long  : 4 |
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```

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