

Experiment 2:

```
C:\Users\CL301_17\Desktop> 23070123112_cds> static_usage.cpp > ...
1 //sai sankar jena
2 //23070123112
3 //entc b2 exp 2
4 #include <iostream>
5
6 using namespace std;
7 int gv = 100;
8
9
10 extern int ev;
11
12 int main() {
13
14     ev = 5;
15
16
17     static int sv = 10;
18
19
20     register int rv = 15;
21
22
23     auto av = 20;
24
25
26     int gv = 200;
27
28     cout << "global: " << gv << " (size: " << sizeof(gv) << " bytes)" << std::endl; //global ko andar bulane ke liye:: use kiya
29     cout << "local: " << gv << " (size: " << sizeof(gv) << " bytes)" << std::endl;
30     cout << "extern: " << ev << " (size: " << sizeof(ev) << " bytes)" << std::endl;
31     cout << "static: " << sv << " (size: " << sizeof(sv) << " bytes)" << std::endl;
32     cout << "register: " << rv << " (size: " << sizeof(rv) << " bytes)" << std::endl; //cpu memory me store karaga
33     cout << "auto: " << av << " (size: " << sizeof(av) << " bytes)" << std::endl;
34
35     return 0;
```

ABOVE CODE SHOWS ABOUT USE OF EXTERN STATIC AUTO AND REGISTER DATA TYPES AND ALSO SHOWS SIZE OF INT VARIABLES

static_usage.cpp

DATA.cpp

C: > Users > CL301_17 > Desktop > 23070123112_cds > DATA.cpp > ...

```
1 //sai
2 //23070123112
3 //entc b2
4 #include <iostream>
5
6 using namespace std;
7
8 int main() {
9     int integerVar;
10    float floatVar;
11    bool boolVar;
12    char charVar;
13    double doubleVar;
14    long long int longLongVar;
15    short int shortIntVar;
16
17    cout << "Size of int: " << sizeof(integerVar) << " bytes" << endl;
18    cout << "Size of float: " << sizeof(floatVar) << " bytes" << endl;
19    cout << "Size of bool: " << sizeof(boolVar) << " bytes" << endl;
20    cout << "Size of char: " << sizeof(charVar) << " byte" << endl;
21    cout << "Size of double: " << sizeof(doubleVar) << " bytes" << endl;
22    cout << "Size of long long int: " << sizeof(longLongVar) << " bytes" << endl;
23    cout << "Size of short int: " << sizeof(shortIntVar) << " bytes" << endl;
24
25    return 0;
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Loaded 'C:\MinGW\bin\libstdc++-6.dll'. Symbols loaded.

Size of int: 4 bytes

Size of float: 4 bytes

Size of bool: 1 bytes

Size of char: 1 byte

Size of double: 8 bytes

Size of long long int: 8 bytes

Size of short int: 2 bytes

The program 'C:\Users\CL301_17\Desktop\23070123112_cds\DATA.exe' has exited with code 0 (0x00000000).