



main.c

C main.c M X

C main.c > main()

```
1 #include <stdio.h>
2
3 int main() {
4     int a = 10;
5     float b = 25.75;
6     char c = 'A';
7
8
9     int *ptrInt = &a;
10    float *ptrFloat = &b;
11    char *ptrChar = &c;
12
13
14    printf("Integer variable:\n");
15    printf("Value of a = %d\n", a);
16    printf("Address of a = %p\n", &a);
17    printf("Pointer ptrInt stores address = %p\n", ptrInt);
18    printf("Value pointed by ptrInt = %d\n", *ptrInt);
19
20    printf("Float variable:\n");
21    printf("Value of b = %.2f\n", b);
22    printf("Address of b = %p\n", &b);
23    printf("Pointer ptrFloat stores address = %p\n", ptrFloat);
24    printf("Value pointed by ptrFloat = %.2f\n", *ptrFloat);
25
26    printf("Character variable:\n");
27    printf("Value of c = %c\n", c);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
● abhaygupta@192 main.c % gcc main.c
● abhaygupta@192 main.c % ./a.out
Integer variable:
Value of a = 10
Address of a = 0x16b896e78
Pointer ptrInt stores address = 0x16b896e78
Value pointed by ptrInt = 10
Float variable:
Value of b = 25.75
Address of b = 0x16b896e74
Pointer ptrFloat stores address = 0x16b896e74
Value pointed by ptrFloat = 25.75
```

Ln 13, Col 5 Spaces: 4 UTF-8



F2

F3

F4

F5

F6

F7

F8

F9

F10

Experiment - 8.1

```
#include <stdio.h>
```

```
int main () {
```

```
    int a = 10;
```

```
    float b = 25.5;
```

```
    char c = 'A';
```

```
    int *ptr_int;
```

```
    float *ptr_float;
```

```
    char *ptr_char;
```

```
    ptr_int = &a;
```

```
    ptr_float = &b;
```

```
    ptr_char = &c;
```

```
    printf("Integer variable: a = %d\n", a);
```

```
    printf("Address stored in ptr_int = %p\n", ptr_int);
```

```
    printf("Value pointed by ptr_int = %d\n\n", *ptr_int);
```

```
    printf("Float variable: b = %.2f\n", b);
```

```
    printf("Address stored in ptr_float = %p\n", ptr_float);
```

```
    printf("Value pointed by ptr_float = %.2f\n\n", *ptr_float);
```

```
    printf("Character variable: c = %c\n", c);
```

```
    printf("Address stored in ptr_char = %p\n", ptr_char);
```

```
    printf("Value pointed by ptr_char = %c\n", *ptr_char);
```

```
    printf("Value pointed by ptr_char = %c\n", *ptr_char);
```

```
    return 0;
```