

C main.c M X

main.c

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\n", *ptrInt);
19
20
21    printf("Float variable:\n");
22    printf("Value of b = %.2f\n", b);
23    printf("Address of b = %p\n", &b);
24    printf("Pointer ptrFloat stores address = %p\n", ptrFloat);
25    printf("Value pointed by ptrFloat = %.2f\n\n", *ptrFloat);
26
27    printf("Character variable:\n");
28    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 $a = 10$

Value of $a = 10$

Address of a = 0x16b896e78
Pointer ptrInt stores address

Value pointed by ptrInt = 10

value pointed by p1, int = 10

Float variable:

Value of b = 25,75
Address of b = 0x16

Address of b = 0x16b896e/4
Pointer pTEfloat stores add

Value pointed by `ptrFloat` =

value pointed by `ptr` to `arr[0]`.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

In 15, Col 15 Spaces: 4 UTF-8



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", *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", *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);
```

```
return 0;
```