

C exp8pointerarithmetic.c > main()

```
1
2  #include <stdio.h>
3
4  int main() {
5      int x = 100;
6      int *ptr = &x;
7
8      printf("Original address: %p\n", ptr);
9      ptr++;
10     printf("After increment: %p\n", ptr);
11     ptr--;
12     printf("After decrement: %p\n", ptr);
13
14     return 0;
15 }
16
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE PORTS

```
PS C:\Users\abiga\OneDrive\Desktop\Absproj> cd "c:\Users\abiga\OneDrive\Desktop\Absproj\" ; if ($?) { gcc exp8pointerarithmetic.c -o exp8pointerarithmetic } ; if ($?) {
Original address: 0061FF18
After increment: 0061FF1C
After decrement: 0061FF18
PS C:\Users\abiga\OneDrive\Desktop\Absproj> |
```

2. Perform pointer arithmetic (increment & decrement) on pointers of different data types. Observe how the memory addresses change and the effects on data access.

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

```
int main () {
```

```
    int x = 100;
```

```
    int *ptr = &x;
```

```
    printf ("Original address : %p \n", ptr);
```

```
    ptr ++;
```

```
    printf ("After increment : %p \n", ptr);
```

```
    ptr --;
```

```
    printf ("After decrement : %p \n", ptr);
```

```
    return 0;
```

```
}
```