Experiment No. 8.2 Name:

PAGE NO.: 41
DATE: / /

```
#include <stdio.h>

int main() {
    int a = 10;
    float b = 20.5;
    char c = 'x';

    int *pInt = &a;
    float *pfloat = &b;
    char *pchar = &c;

    printf("Initial Addresses : \n");
    printf("pInt = %p\n", pInt);
    printf("pfloat = %p\n", pfloat);
    printf("pchar = %p\n", pchar);

    pInt++;
    pfloat++;
    pchar++;

    printf("\n After Incrementing : \n");
    printf("pInt = %p\n", pInt);
    printf("pfloat = %p\n", pfloat);
    printf("pchar = %p\n", pchar);

    pInt--;
    pfloat--;
    pchar--;
```

Teacher's Signature:

```
printf("\n After Decrementing (back to original): \n");
printf("pInt = %p\n", pInt);
printf("pfloat = %p\n", pfloat);
printf("pchar = %p\n", pchar);

printf("\n Values accessed using pointers: \n");
printf("*pInt = %d\n", *pInt);
printf("*pfloat = %d\n", *pfloat);
printf("*pchar = %d\n", *pchar);

return 0;
}
```

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main.c | Share | Run | Output | Clear

```c
#include <stdio.h>

int main() {
    int a = 10;
    float b = 20.5;
    char c = 'X';

    int *pInt = &a;
    float *pFloat = &b;
    char *pChar = &c;

    printf("Initial Addresses:\n");
    printf("pInt   = %p\n", pInt);
    printf("pFloat = %p\n", pFloat);
    printf("pChar  = %p\n", pChar);

    pInt++;
    pFloat++;
    pChar++;

    printf("\nAfter Incrementing:\n");
    printf("pInt   = %p\n", pInt);
    printf("pFloat = %p\n", pFloat);
    printf("pChar  = %p\n", pChar);
```

```
Initial Addresses:
pInt   = 0x7ffc5ab78994
pFloat = 0x7ffc5ab78990
pChar  = 0x7ffc5ab7898f

After Incrementing:
pInt   = 0x7ffc5ab78998
pFloat = 0x7ffc5ab78994
pChar  = 0x7ffc5ab78990

After Decrementing (back to original):
pInt   = 0x7ffc5ab78994
pFloat = 0x7ffc5ab78990
pChar  = 0x7ffc5ab7898f

Values accessed using pointers:
*pInt   = 10
*pFloat = 20.50
*pChar  = X


=== Code Execution Successful ===
```

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main.c

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```c
    pInt++;
    pFloat++;
    pChar++;

    printf("\nAfter Incrementing:\n");
    printf("pInt   = %p\n", pInt);
    printf("pFloat = %p\n", pFloat);
    printf("pChar  = %p\n", pChar);

    pInt--;
    pFloat--;
    pChar--;

    printf("\nAfter Decrementing (back to original):\n");
    printf("pInt   = %p\n", pInt);
    printf("pFloat = %p\n", pFloat);
    printf("pChar  = %p\n", pChar);

    printf("\nValues accessed using pointers:\n");
    printf("*pInt   = %d\n", *pInt);
    printf("*pFloat = %.2f\n", *pFloat);
    printf("*pChar  = %c\n", *pChar);

    return 0;
}
```

Output | Clear

```
Initial Addresses:
pInt   = 0x7ffc5ab78994
pFloat = 0x7ffc5ab78990
pChar  = 0x7ffc5ab7898f

After Incrementing:
pInt   = 0x7ffc5ab78998
pFloat = 0x7ffc5ab78994
pChar  = 0x7ffc5ab78990

After Decrementing (back to original):
pInt   = 0x7ffc5ab78994
pFloat = 0x7ffc5ab78990
pChar  = 0x7ffc5ab7898f

Values accessed using pointers:
*pInt   = 10
*pFloat = 20.50
*pChar  = X


=== Code Execution Successful ===
```

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