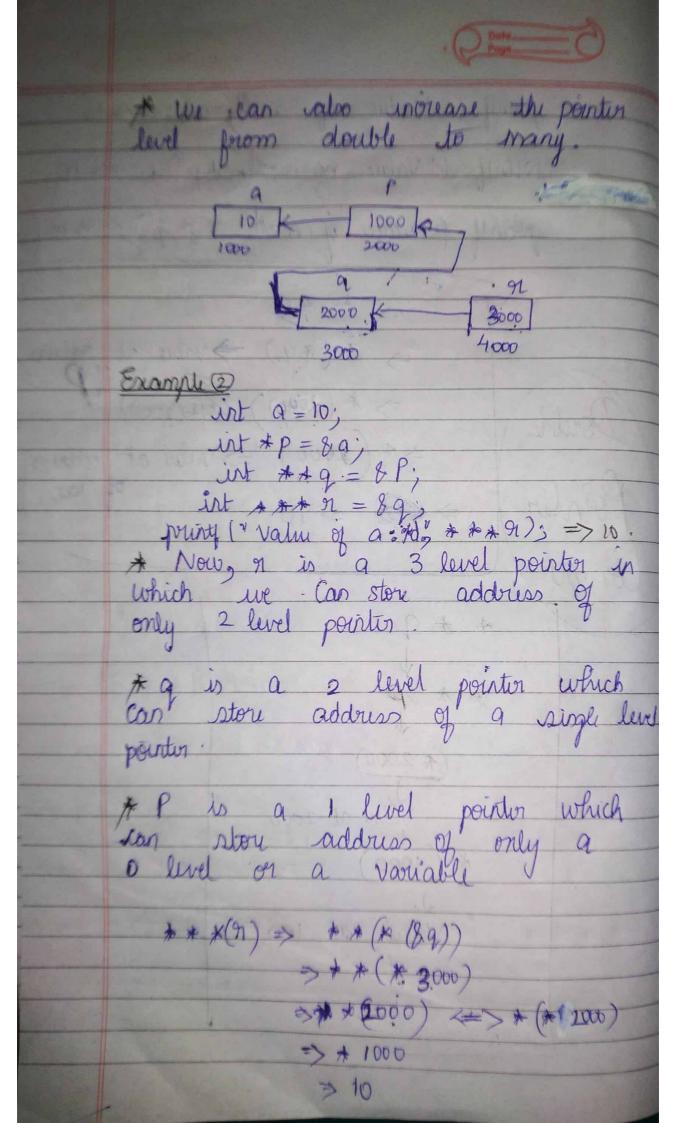
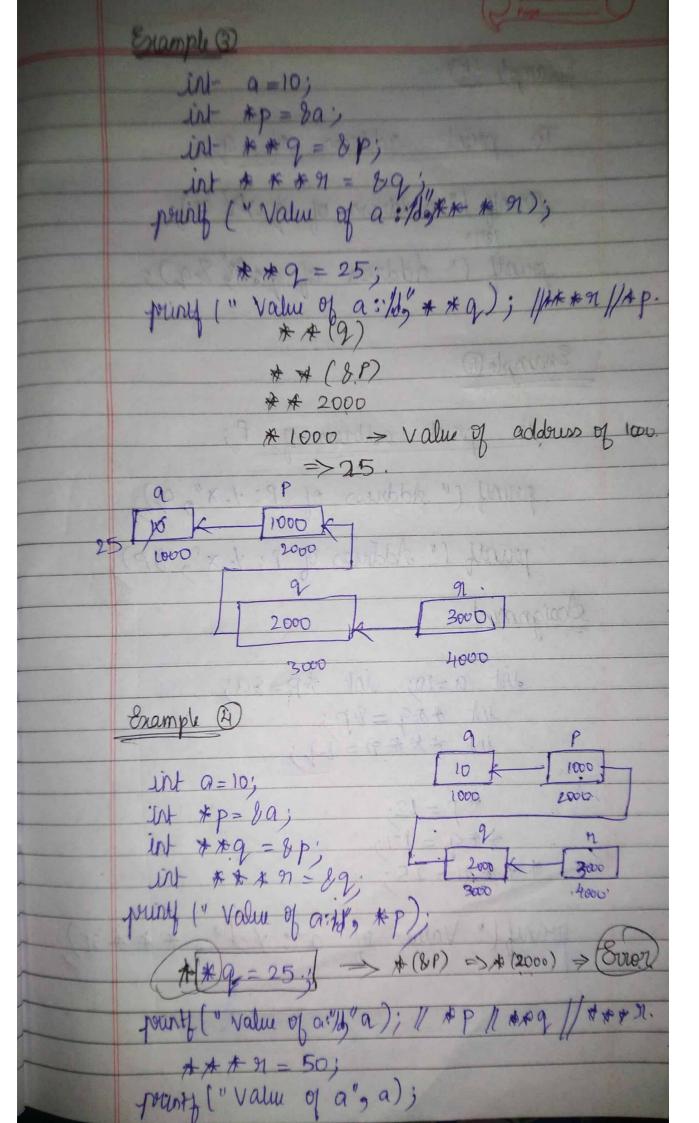


part (" Value of a:/4; a); => 10 prints ("Value of a=1/2, *p); => 10 print ("Value of a:/b/g" * # 9); >> 10. > * * 9. > * (*9.) Value at addrum > * (*8p)) / (+(2000)). > A (\$000). => Valu at oddress 0 1000. A * 9 minus in Value at 2000 * (1000) Value at 100 10:





Example (5) To print address of 9% print (Poldress of 9:1x, 21); pourly (" Address of g: 18, 89); Enample (6) To print address of P; point (" Address of P: 1. X", 9); pourtly (" Addruss of P; /x", &P); Dorignment int 4 + 9 = 89;

int 4 + 9 = 89;

int 4 + 9 = 89; * p = 12; * * 9 = 17; * * * 9 = 25; print(" Value of arc 1d", * * * 91)

CODE 1:

```
1 #include <stdio.h>
     #include <stdlib.h>
 2
 3 /** DOUBLE POINTER **/
 4 int main()
6
         int a=10;
 7
         int *p;
 8
        p=&a; //Single pointer can store only address of 0 level pointer
 9
         int **q;
         // ERROR q=&a; //Cant store 0 level pointer address in 1 level pointer
10
11
12
         q=&p; //double pointer can store only address of 1 level pointer
13
         int ***r;
         r=&q; //triple pointer can store only address of 2 level pointer
14
        printf("Value of a:%d\n",a);
15
16
         printf("Value of a:%d\n",*p);
        printf("Value of a:%d\n", **q);
17
        printf("Value of a:%d\n",***r);
18
19
        getch();
20
```

```
"D:\1. C NOTEBOOK\C LANG
Value of a:10
Value of a:10
Value of a:10
Value of a:10
```

CODE 2:

```
#include <stdio.h>
 1
 2
      #include <stdlib.h>
     /** 2 - DOUBLE POINTER **/
 3
 4
     int main()
 5
    □ {
 6
          int a=10;
          int *p,**q,***r;
 7
 8
          p=&a;
 9
          q=&p;
10
          r=&q;
          printf("Value of a:%d\n",a);
11
12
         **q=25;
13
          printf("Value of a:%d\n",a);
          printf("Value of a:%d\n",*p);
14
          printf("Value of a:%d\n",**q);
15
          printf("Value of a:%d\n", ***r);
16
17
          getch();
18
19
```

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```
Value of a:10
Value of a:25
Value of a:25
Value of a:25
Value of a:25
```

CODE 3:

```
1
     #include <stdio.h>
 2
    #include <stdlib.h>
 3
    /** 3 - DOUBLE POINTER **/
 4
     int main()
 5
    ⊟ {
 6
         int a=10; int *p, **q, ***r;
 7
         p=&a; q=&p; r=&q;
 8
         printf("ADDRESS\n");
 9
          //Address will be in hexadecimal format
          // %x is the format specifier to print hexadecimal values
10
11
         printf("Address of a:%x\n",&a);
12
         printf("Address of a:%x\n",p);
13
         printf("\n");
14
         printf("Address of p:%x\n",&p);
15
         printf("Address of p:%x\n",q);
16
         printf("\n");
17
         printf("Address of q:%x\n",&q);
18
         printf("Address of q:%x\n",r);
19
         printf("\n");
20
         printf("Address of r:%x\n",&r);
21
         getch();
22
```

III "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 6_JENNYS LECTURE_POINTERS\4_DOUE

```
ADDRESS
Address of a:61fe1c
Address of p:61fe1c
Address of p:61fe10
Address of p:61fe10
Address of q:61fe08
Address of q:61fe08
Address of r:61fe00
```