```
/*Smart Pointers*/
#include<stdio.h>
 #include<stdlib.h>
 int main(){
int a=5;
printf("addr of a = u\t val of a = d\n",&a,a);
int *u=&a;
int *v=u;
 int **w=&v;
int ***x=&w;
 int ****y=&x;
int *****z=&y;
printf("val of v = u \n", v);
printf("val of *v = %d \n",*v);
printf("val of w = %d \n", w);
printf("val of *w = %d \n",*w);
printf("val of **w = %d \n",**w);
printf("val of **w = %d \n",**w);
printf("val of x = %d \n",x);
printf("val of *x = %d \n",*x);
print(( val of *x = %d \n', *x);
printf("val of **x = %d \n', **x);
printf("val of **x = %d \n', ***x);
printf("val of **x = %d \n'', **x);
printf("val of *y = %d \n'', *y);
printf("val of **y = %d \n'', **y);
printf("val of ***y = %d \n'', ***y);
printf("val of ***y = %d \n'', ***y);
printf("val of ***y = %d \n'', ***y);
printf("val of z = %d \n", z);
printf("val of *z = %d \n",*z);
printf("val of *z = %d \n",*z);
printf("val of **z = %d \n",**z);
printf("val of ***z = %d \n",***z);
printf("val of ***z = %d \n",***z);
printf("val of *****z = %d \n", *****z);
 return 0;
 root@server0025:~/programs/c# gcc -o pointers pointers.c && ./pointers
addr of a = 1903132220
                                        val of a = 5
val of v = 1903132220
val of *v = 5
val of w = 1903132208
val of *w = 1903132220
val of **w = 5
val of x = 1903132200
val of *x = 1903132208
val of **x = 1903132220
val of ***x = 5
val of y = 1903132192

val of *y = 1903132200

val of **y = 1903132208

val of ***y = 1903132220
val of ****y = 5
val of z = 1903132184
val of *z = 1903132192
val of **z = 1903132200
val of ***z = 1903132208
val of ****z = 1903132220
val of ****z = 5
 root@server0025:~/programs/c#
```