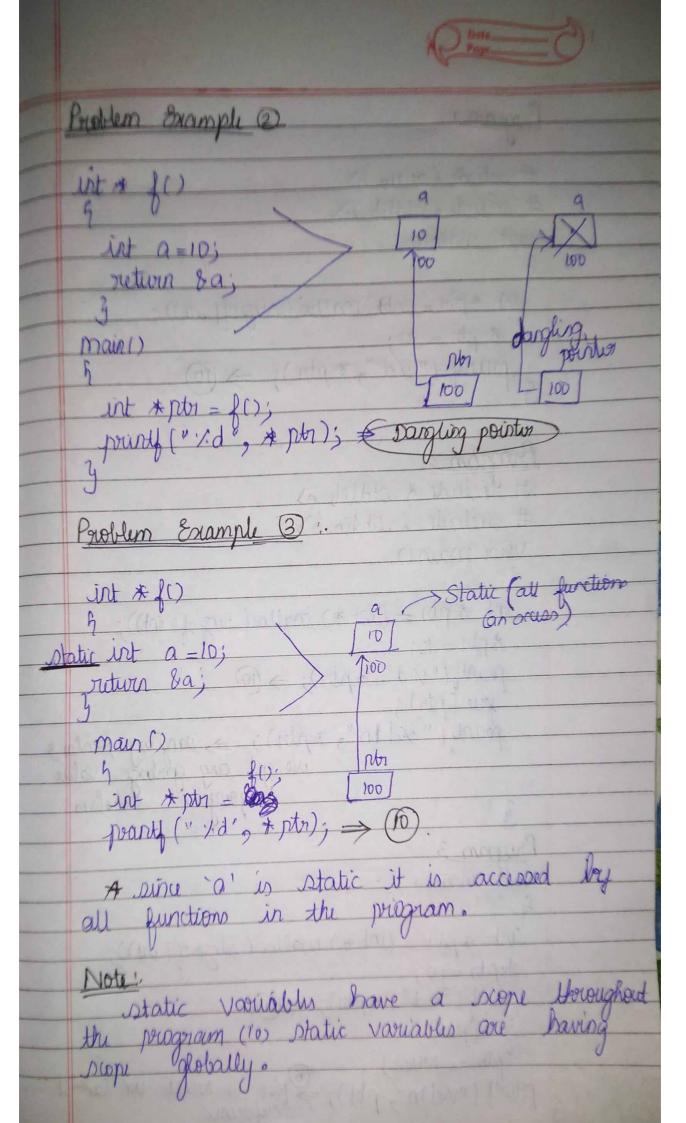
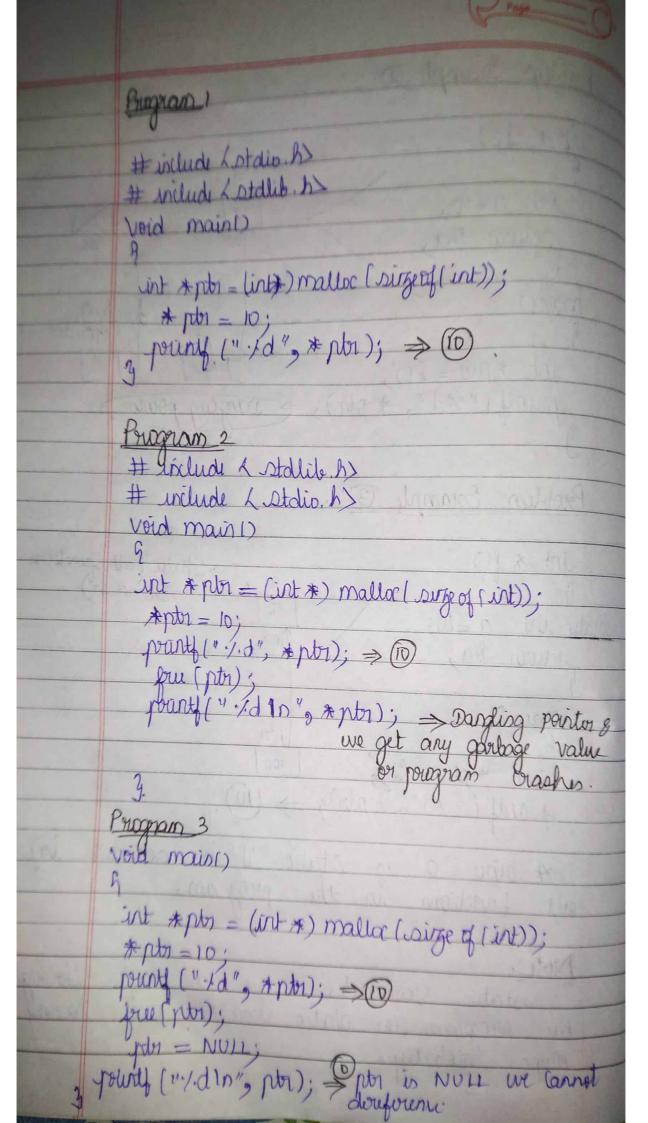


	of this dangling pointer; we can initialize it with NULL.
	Notes: pb1 = NOLL; for accessing
	any pointers; we have to check whether it is NULL or not (order)
Elas y	memory location. Problem & sound
	Peroblem Example: (1)  Petroblem Example: (1)
Inta	int * ptr;  a. /a.  int a = 9;  ptr = 2a;  mint l'' (d') 1 + 1 + 2 minory
).	Journey (" 1.d", * ptr); How por is now dargling pointer
	Variable and it con't by accessed withinke of the block.
	and the second of the







# Program 4

# include & stdio, h) # include Lotalib. b)

int a = 9; netwn 8a; int main() int & pto = {(); printf ("'/d", \*ptr); > dargling; here we get garbage value or program crasher.

# Program 5

# include Lotdio. h>

# include Lotalib. h)

void main ()

int \*ptr = NULL;

int a=5;

ptr = &a;
pruny (" 1.din", \* ptr); > 5

pount (" /d In", \* ptr); > goodage value but Sometimes gives a

## PROBLEM 1:

```
#include <stdio.h>
2 #include <stdlib.h>
3 /** 1-DANGLING POINTER **/
   int main()
5 □ {
6
         int *ptr;
7
8
         int a=9;
9
         ptr=&a;
10
         printf("%d\n", *ptr);
11
12
         printf("%d\n",*ptr);//This is dangling pointer
    /** This sometimes gives garbage value or same 9 but later value will change**/
13
14
15
16
```

```
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Process returned 0 (0x0) execution time : 0.037 s

Press any key to continue.
```

#### PROBLEM 2:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /** 2-DANGLING POINTER **/
 4
     int main()
 5
   □ {
 6
     int *ptr=(int*)malloc(sizeof(int));
 7
      *ptr=10;
 8
      printf("%d\n", *ptr);
 9
      free (ptr);
     printf("%d\n",*ptr);//dangling pointer
10
      /** this will give garbage value as output **/
11
12
     getch();
13
14
```

```
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```

## PROBLEM 3:

```
1
     #include <stdio.h>
 2
     #include <stdlib.h>
 3
     /** 3-DANGLING POINTER **/
 4
     int main()
 5
 6
     int *ptr=(int*)malloc(sizeof(int));
 7
     *ptr=10;
 8
     printf("%d\n", *ptr);
9
     free (ptr);
     ptr=NULL;
10
     printf("%d\n",ptr);//we cant deference Null pointer because it has only zero
11
12
      /** Null pointer doest point to any memory location and it has value 0 **/
13
     getch();
14
15
```

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```
10
0
```

#### PROBLEM 4:

```
#include <stdio.h>
1
2
     #include <stdlib.h>
 3
   /** 4-DANGLING POINTER **/
 4
    int *f()
 5
   □{
 6
     int a=9;
 7
     return &a;
 8
      /** scope of variable 'a' is within this block only**/
 9
10
    int main()
11 □{
12
   int *ptr=f();
13
    printf("%d\n", *ptr); //dangling pointer
14
     /** memory allocated to variable 'a' vanishes **/
15
     /** so we cant dereference this pointer ptr **/
16
    getch();
17
```

## PROBLEM 5:

```
1
    #include <stdio.h>
2
    #include <stdlib.h>
    /** 5-DANGLING POINTER **/
3
4
   int *f()
5
   ₽{
6
     static int a=9;
7
    return &a;
8
     /** variable 'a' is static hence memory do not vanishes outside the block**/
9
10
   int main()
11
   ₽{
12
   int *ptr=f();
13
   printf("%d\n",*ptr);
    /** memory allocated to variable 'a' remains still, since it is static **/
14
    /** Hence we can access 'a' for entire program **/
15
16
    getch();
17
18
```

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```
9
```

#### PROBLEM 6:

```
#include <stdio.h>
 2
     #include <stdlib.h>
 3
     /** 6-DANGLING POINTER **/
 4
     int main()
 5
 6
     int *ptr=NULL;
7
 8
      int a=9;
9
      ptr=&a;
10
     printf("%d\n", *ptr);
11
12
     //dangling pointer
     printf("%d\n",ptr); //gives unknown memory address
13
14
     printf("%d\n", *ptr); //gives garbage value
15
     getch();
16
     }
17
```

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