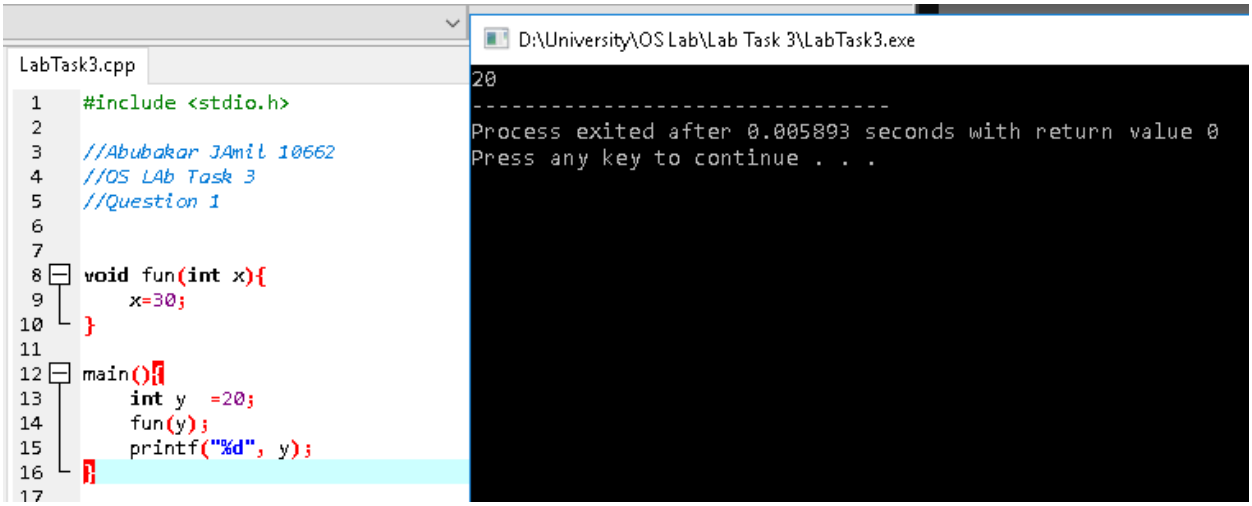
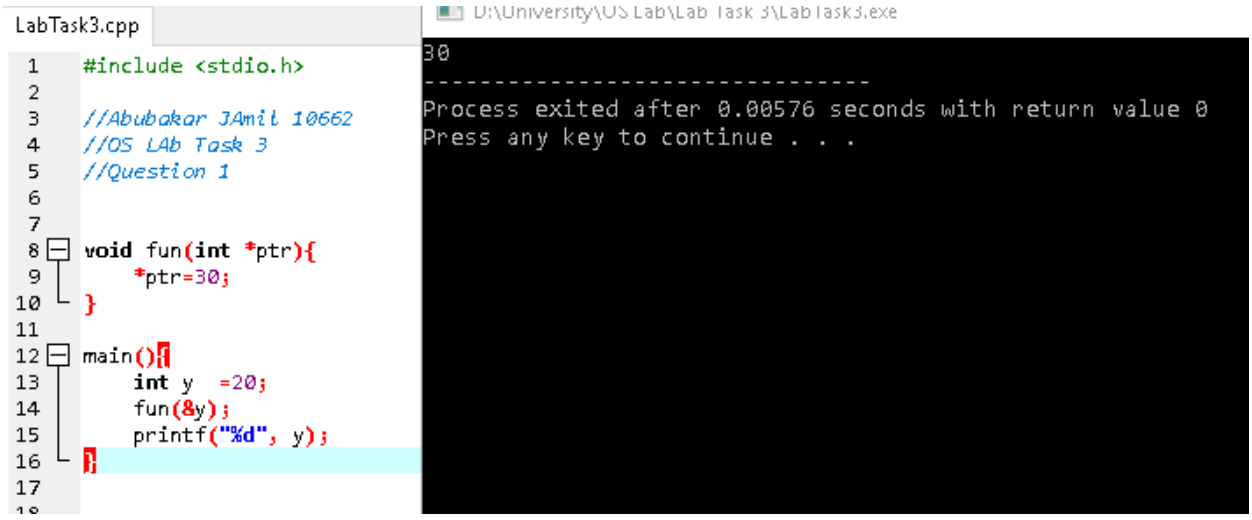
OS Lab 3
Abubakar Jamil
10662

Task 1:



Task 2:



Task 3:

```c
//Abubakar JAmil 10662
//OS LAb Task 3
//Question 3

main(){
    int *ptr;
    int x;

    ptr = &x;
    *ptr =0;

    printf("x = %d\n",x);
    printf("*ptr = %d\n",*ptr);

    *ptr += 5;
    printf("x = %d\n",x);
    printf("*ptr = %d\n",*ptr);

    (*ptr)++;
    printf("x = %d\n",x);
    printf("*ptr = %d\n",*ptr);

}
```

```
D:\University\OS Lab\Lab Task 3\LabTask3.exe
x = 0
*ptr = 0
x = 5
*ptr = 5
x = 6
*ptr = 6

--------------------------------
Process exited after 0.007442 seconds
Press any key to continue . . .
```

Task 4:

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

//Abubakar JAmil 10662
//OS LAb Task 3
//Question 4

main(){

    printf("Abubakar Jamil 10662\nOS Lab Task 3\nQuestion 4\n");
    int *ptr, i, sum=0;
    ptr = (int*)malloc(10*sizeof(int));

    for(i=0;i<10;i++){
        ptr+i;
    }
    printf("First Allocation\n\n");
    for(i=0;i<10;i++){
        printf("%d\n",*(ptr+i));
    }
    for(i=0;i<10;i++){
        sum += *(ptr+i);
    }
    printf("Sum of array elements is: %d\n",sum);

    ptr = (int*)realloc(ptr, 10*sizeof(int));
    printf("Reallocation\n\n");
    for(i=0;i<10;i++){
        printf("%d\n",*(ptr+i));
    }

    free(ptr);
}
```

```
D:\University\OS Lab\Lab Task 3\LabTask3.exe
Abubakar Jamil 10662
OS Lab Task 3
Question 4
First Allocation

2057888
0
2031952
0
1801544309
1331458657
1917085038
6649449
1463636815
1868852841
Sum of array elements is: -196617643
Reallocation

2057888
0
2031952
0
1801544309
1331458657
1917085038
6649449
1463636815
1868852841
```