OS Lab 3 Abubakar Jamil 10662

Task 1:

```
D:\University\OS Lab\Lab Task 3\LabTask3.exe
LabTask3.cpp
1
    #include <stdio.h>
                                     Process exited after 0.005893 seconds with return value 0
    //Abubakar JAmit 10662
3
                                     Press any key to continue . . .
    //OS_LAb_Task_3
    //Question 1
8 ☐ void fun(int x){
9T
        x=30;
11
12 main(){
         int y =20;
13
14
         fun(y);
         printf("%d", y);
15
16 L
```

Task 2:

```
D:\University\U5 Lab\Lab Task 3\LabTask3.exe
LabTask3.cpp
     #include <stdio.h>
                                Process exited after 0.00576 seconds with return value 0
    //Abubakar JAmit 10662
                                Press any key to continue . . .
    //OS LAb Task 3
    //Question 1
 8 ☐ void fun(int *ptr){
         *ptr=30;
9
10 L }
11
12 🗐 main(){
13
         int y =20;
14
         fun(8y);
15
         printf("%d", y);
16 L
17
```

Task 3:

```
D:\University\OS Lab\Lab Task 3\LabTask3.exe
                                            x = 0
                                            *ptr = 0
                                            x = 5
7 - main(){
                                            *ptr = 5
        int *ptr;
                                            x = 6
         int x;
                                            *ptr = 6
         ptr = &x;
         *ptr =0;
                                            Process exited after 0.007442 seconds
                                            Press any key to continue . . .
         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);
```

Task 4:

```
■ D:\University\OS Lab\Lab Task 3\LabTask3.exe
                                                                                       Abubakar Jamil 10662
                                                                                       OS Lab Task 3
                                                                                       Question 4
                                                                                       First Allocation
main(){
                                                                                       2057888
        printf("Abubakar Jamil 10662\nOS Lab Task 3\nQuestion 4\n");
int *ptr, i, sum=0;
ptr = (int*)malloc(10*sizeof(int));
                                                                                       2031952
                                                                                       1801544309
                                                                                       1331458657
ፅ
                                                                                       1917085038
                                                                                       6649449
        printf("First Allocation\n\n");
for(i=0;i<10;i++){
    printf("%d\n",*(ptr+i));</pre>
                                                                                       1463636815
Ė
                                                                                       1868852841
                                                                                       Sum of array elements is: -196617643
                                                                                       Reallocation
         for(i=0;i<10;i++){
    sum += *(ptr+i);
Θ
                                                                                       2057888
        printf("Sum of array elements is: %d\n",sum);
                                                                                       2031952
        ptr = (int*)realloc(ptr, 10*sizeof(int));
printf("Reallocation\n\n");
for(i=0;i<10;i++){</pre>
                                                                                       1801544309
                                                                                       1331458657
Ħ
                                                                                       1917085038
             printf("%d\n",*(ptr+i));
                                                                                       6649449
                                                                                       1463636815
                                                                                       1868852841
         free(ptr);
```