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## Practice Problems:

### Part 1 :

#### Code:

```
#include<stdio.h>

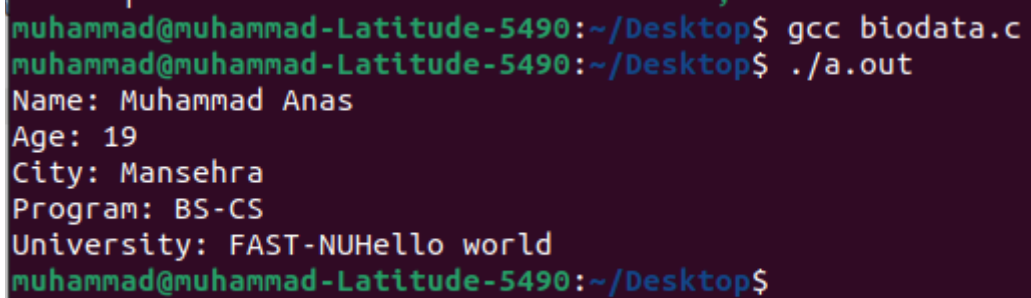
void biodata(void);
int main(void)
{
    biodata();

    printf("Hello world\n");

    return 0;}
void biodata(void)
{
    printf("Name: Muhammad Anas\n");
    printf("Age: 19\n");
    printf("City: Mansehra\n");
    printf("Program: BS-CS\n");
    printf("University: FAST-NU");

}
```

#### Output:



```
muhammad@muhammad-Latitude-5490:~/Desktop$ gcc biodata.c
muhammad@muhammad-Latitude-5490:~/Desktop$ ./a.out
Name: Muhammad Anas
Age: 19
City: Mansehra
Program: BS-CS
University: FAST-NUHello world
muhammad@muhammad-Latitude-5490:~/Desktop$
```

## Part 2 :

### code:

```
#include<stdio.h>
void swap(int a, int b);

int main()
{
    int a=5, b=15;

    swap(a,b);
    return 0;
}

void swap(int a, int b)
{
    printf("value of a is =%d\n",a);
    printf("value of b is =%d\n",b);

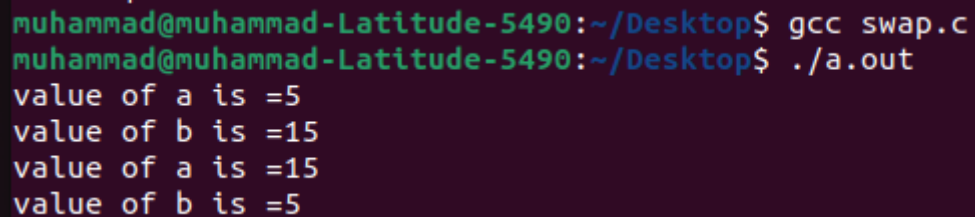
    int c;

    c=a;
    a=b;
    b=c;

    printf("value of a is =%d\n",a);
    printf("value of b is =%d\n",b);

}
```

### Output:



```
muhammad@muhammad-Latitude-5490:~/Desktop$ gcc swap.c
muhammad@muhammad-Latitude-5490:~/Desktop$ ./a.out
value of a is =5
value of b is =15
value of a is =15
value of b is =5
```

r

### **Part 3:**

Code:

```
#include<stdio.h>
void square(int a);
void cube(int a);
int main()
{
    int a;
    printf("Enter value of a:");
    scanf("%d",&a);

    square(a);
    cube(a);

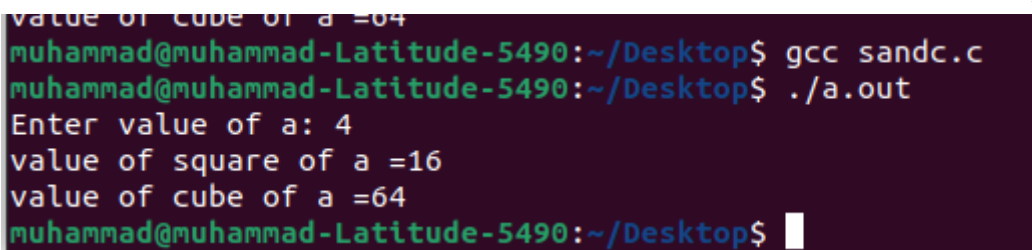
    return 0;
}
void square(int a)
{
    int square;

    square =a*a;

    printf("value of square of a =%d\n",square);

}
void cube(int a)
{
    int cube;
    cube =a*a*a;
    printf("value of cube of a =%d\n",cube);
}
```

### **Output:**



```
value of cube of a =64
muhammad@muhammad-Latitude-5490:~/Desktop$ gcc sandc.c
muhammad@muhammad-Latitude-5490:~/Desktop$ ./a.out
Enter value of a: 4
value of square of a =16
value of cube of a =64
muhammad@muhammad-Latitude-5490:~/Desktop$
```

## **Part 4:**

### **Code:**

```
#include<stdio.h>

int count(int a);
int b(int a);

int main()
{
    int a;

    printf("enter the Value of a=" );
    scanf("%d",&a);

    printf("Value of a after post increment is =%d\n",count(a));
    printf("Value of b after pre increment is =%d\n",b(a));

    return 0;
}
int count(int a)
{

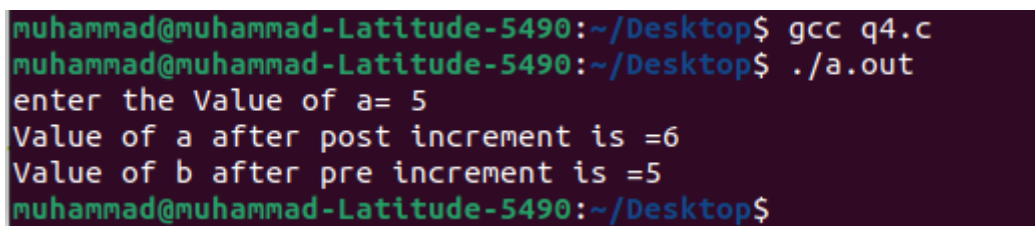
return ++a;

}
int b(int a)
{

return a++;

}
```

### **Output:**



```
muhammad@muhammad-Latitude-5490:~/Desktop$ gcc q4.c
muhammad@muhammad-Latitude-5490:~/Desktop$ ./a.out
enter the Value of a= 5
Value of a after post increment is =6
Value of b after pre increment is =5
muhammad@muhammad-Latitude-5490:~/Desktop$
```

n

## **Part 5:**

### **Code:**

```
#include<stdio.h>
void swap(int a, int b);

int main()
{
    int a,b;

    printf("Enter value of a");
    scanf("%d",&a);
    printf("Enter value of b");
    scanf("%d",&b);


    swap(a,b);
    return 0;
}

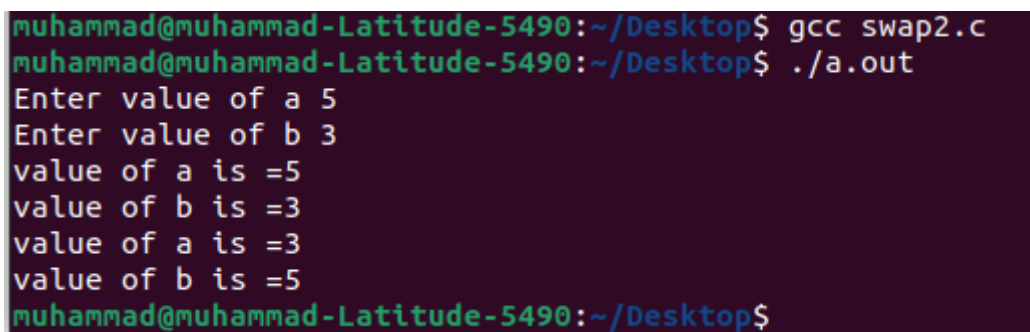
void swap(int a, int b)
{
    printf("value of a is =%d\n",a);
    printf("value of b is =%d\n",b);

    int c;

    c=a;
    a=b;
    b=c;

    printf("value of a is =%d\n",a);
    printf("value of b is =%d\n",b);    }
```

### **Output:**



```
muhammad@muhammad-Latitude-5490:~/Desktop$ gcc swap2.c
muhammad@muhammad-Latitude-5490:~/Desktop$ ./a.out
Enter value of a 5
Enter value of b 3
value of a is =5
value of b is =3
value of a is =3
value of b is =5
muhammad@muhammad-Latitude-5490:~/Desktop$
```