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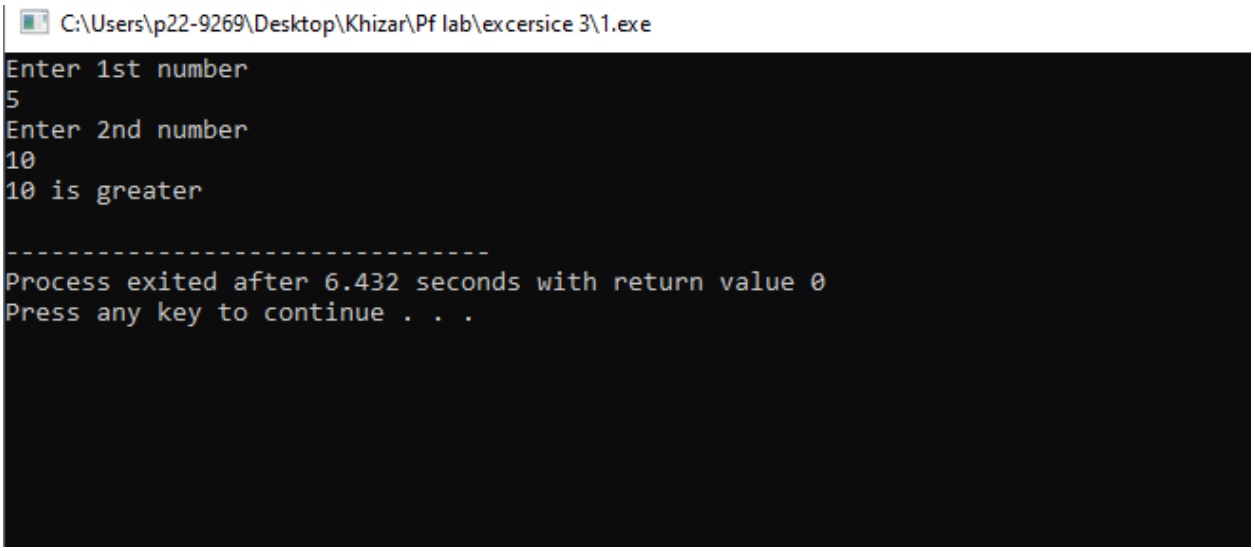
Subject: Programing Fundamentals LAB

Submitted to:

Problem: 1

Write a program that reads two integers from user and outputs the largest one using if else.

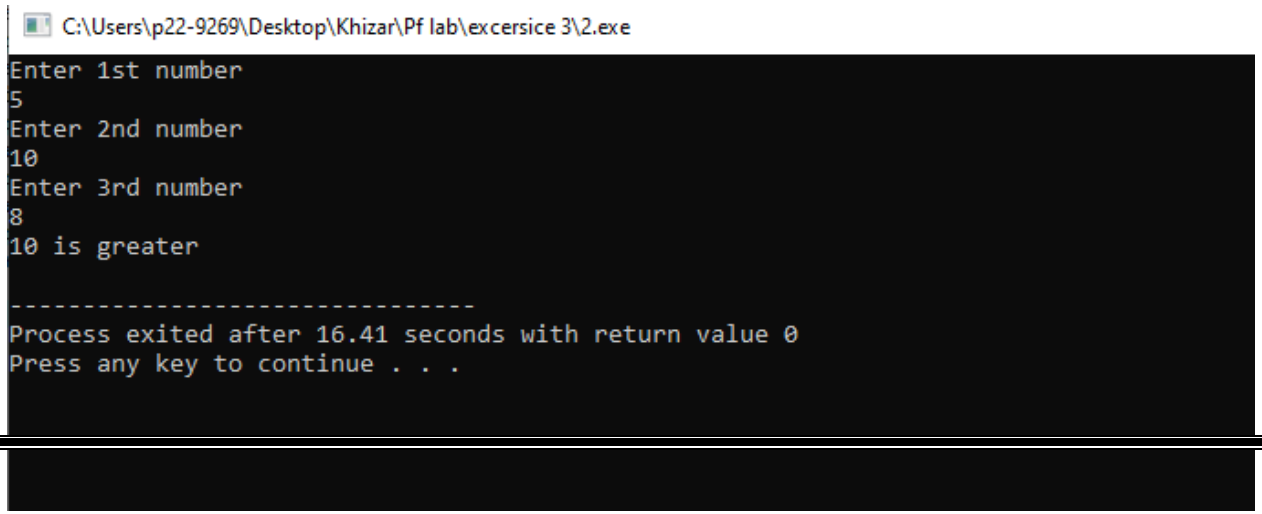
```
#include<stdio.h>
int main()
{
	int num1,num2;
	printf("Enter 1st number \n");
	scanf("%d",&num1);
	printf("Enter 2nd number \n");
	scanf("%d",&num2);
	if (num1>num2)
	printf("%d is greater \n",num1);
	else
	printf("%d is greater \n",num2);
	return 0;

}
```



Problem: 2

Write a program that reads three integers from user and outputs the largest one.

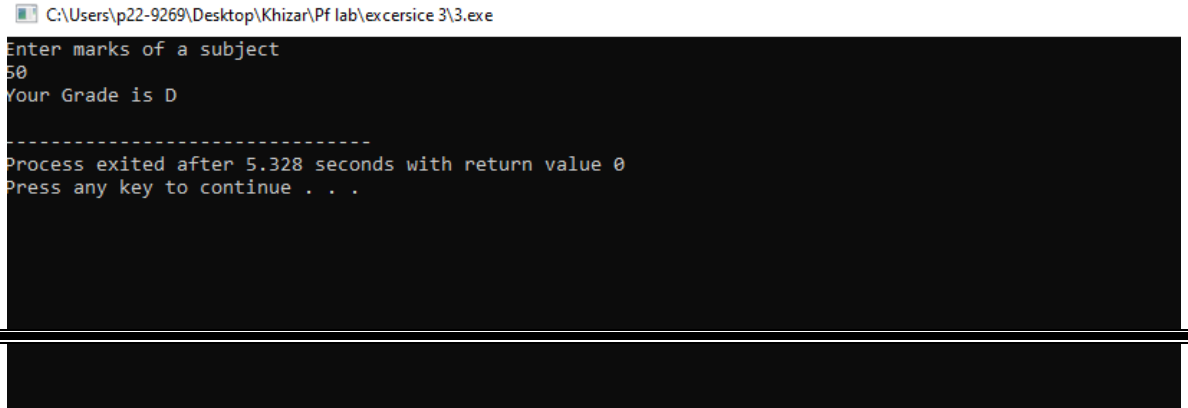
```
#include<stdio.h>
int main()
{
	int num1,num2,num3;
	printf("Enter 1st number \n");
	scanf("%d",&num1);
	printf("Enter 2nd number \n");
	scanf("%d",&num2);
	printf("Enter 3rd number \n");
	scanf("%d",&num3);
	if (num1>num2 && num1>num3)
	printf("%d is greater \n",num1);
	else if(num2>num1 && num2>num3)
	printf("%d is greater \n",num2);
	else
	printf("%d is greater \n",num3);
	return 0;
}
```



Problem: 3

Write a program that reads the score of a student in a subject and displays his grades according to the following criteria:

```
#include<stdio.h>
int main()
{
	int marks;
	printf("Enter marks of a subject \n");
	scanf("%d",&marks);
	if (marks>=90)
	printf("Your Grade is A+ \n");
	else if (marks>=80)
	printf("Your Grade is A \n");
	else if (marks>=70)
	printf("Your Grade is B \n");
	else if (marks>=60)
	printf("Your Grade is C \n");
	else if (marks>=50)
	printf("Your Grade is D \n");
	else
	printf("Your Grade is F \n");
	return 0;
}
```

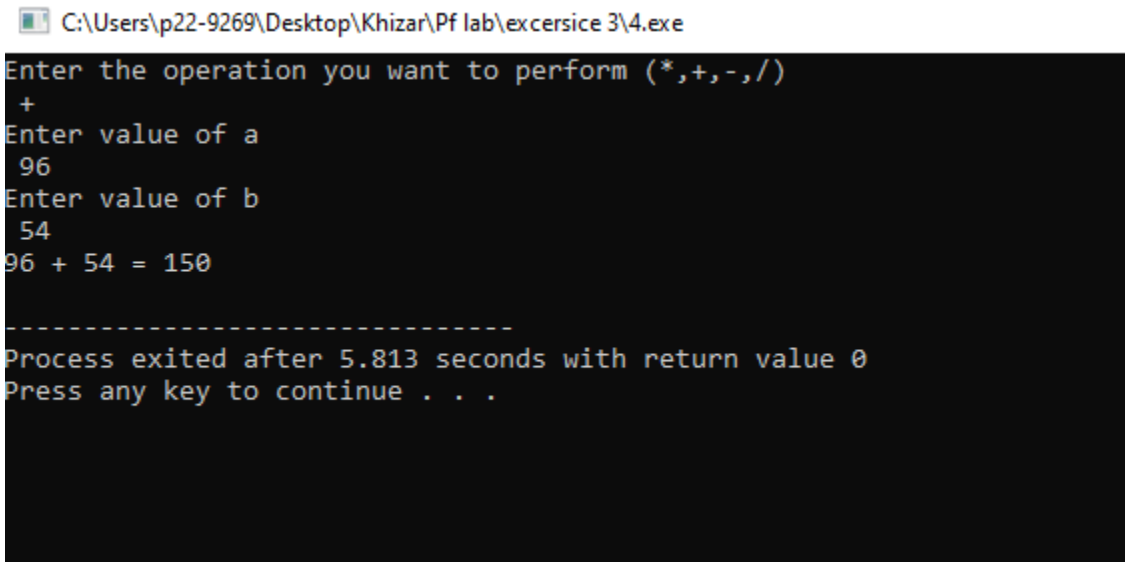


Make a Simple Calculator to Add, Subtract, Multiply or Divide Using if else.

Your program ask user to enter the number and the operation you want to perform (+,-,*,/,%)

```
#include<stdio.h>
int main()
{
	int sum, product, divide,subtract;
	int a , b ;
	char c;
	printf("Enter the operation you want to perform (*,+,-,/) \n ");
	scanf("%s",&c);
	printf("Enter value of a \n ");
	scanf("%d",&a);
	printf("Enter value of b \n ");
	scanf("%d",&b);
	if(c=='+')
	{
		sum=a+b;
		printf("%d + %d = %d  \n", a , b , sum );
	}
else if(c=='-')
	{
		subtract=a-b;
		printf("%d - %d = %d  \n", a , b , subtract );
	}
else if(c=='*')
	{
		product=a*b;
		printf("%d * %d = %d  \n", a , b , product );
	}
```

```
        else
        {
                divide=a/b;
                printf("%d / %d = %d  \n", a , b , divide  );
        }

        return 0;
}
```



Problem: 5

Write a program to check a triangle is equilateral, isosceles or scalene. Your program should ask the user to input x,y,z values

```
#include<stdio.h>
int main()
{

        int a , b ,c  ;

        printf("Enter value of a \n ");
        scanf("%d",&a);
```

```
        printf("Enter value of b \n ");
        scanf("%d",&b);
        printf("Enter value of c \n ");
        scanf("%d",&c);
        if(a==b&&a==c)
        {
                printf("The triangle is equiletral \n" );
        }
else if((a!=b&&a!=c)&&(b!=a&&b!=c)&&(c!=a&&c!=b))

        printf("The triangle has 3 unequal sides \n" );
else
{
printf("The triangle is isoscale \n ");
}

        return 0;
}
```

```
C:\Users\p22-9269\Desktop\Khizar\Pf lab\excersice 3\5.exe
Enter value of a
 8
Enter value of b
 8
Enter value of c
 8
The triangle is equiletral

--------------------------------
Process exited after 4.989 seconds with return value 0
Press any key to continue . . .
```