

```

#include <stdio.h>

int main ()
{
    int add1,add2,sum,choice;
    float sub1,sub2,subt;
    double mult1,mult2,prod,div1,div2,quo;
    do
    {
        printf("Press 1 for addition\nPress 2 for subtraction\nPress 3 for multiplication\nPress 4 for
division\n");
        scanf("%d",&choice);
        if (choice!=1 && choice!=2 && choice!=3 && choice!=4)
            printf("Please enter a valid number\n\n");
    } while(choice!=1 && choice!=2 && choice!=3 && choice!=4);
    if (choice==1)
    {
        printf("Enter the two numbers:\n");
        scanf("%d %d",&add1,&add2);
        sum = add1 + add2;
        printf("Sum of %d and %d is %d",add1,add2,sum);
    }
    else if (choice==2)
    {
        printf("Enter the two numbers:\n");
        scanf("%f %f",&sub1,&sub2);
        subt = sub1 - sub2;
        printf("Difference between %.2f and %.2f is %.2f",sub1,sub2,subt);
    }
    else if (choice==3)
    {
        printf("Enter the two numbers:\n");

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scanf("%lf %lf",&mult1,&mult2);

prod = mult1 * mult2;

printf("Product of %.4lf and %.4lf is %.4lf",mult1,mult2,prod);
}

else if (choice==4)
{
    printf("Enter the two numbers:\n");
    scanf("%lf %lf",&div1,&div2);
    quo = div1 / div2;
    printf("Quotient of %.4lf and %.4lf is %.4lf",div1,div2,quo);
}

return 0;
}
```