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//WAP to design a menu driven calculator using switch and goto.
#include<stdio.h>
int main(){
float num1,num2,result;
int mod_result;
char operator;

printf("\t\t\t***calculator***\n\n");
printf("\t operations :\n");
printf("\t\t + : Addition\n");
printf("\t\t - : Subtraction\n");
printf("\t\t * : Multiplication\n");
printf("\t\t / : Division\n");
printf("\t\t %% : Modulus\n");

repeat:
    printf("enter first operand:");
    scanf("%f",&num1);
    printf("enter second operand:");
    scanf("%f",&num2);
    printf("enter operation:");
    scanf(" %c",&operator);

    switch(operator)
    {
case '+':
result = num1 + num2;
printf("%.1f + %.1f = %.1f", num1, num2, result);
break;
case '-':
result = num1 - num2;
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printf("%.1f - %.1f = %.1f", num1, num2, result);
break;
case '*':
result = num1 * num2;
printf("%.1f * %.1f = %.1f", num1, num2, result);
break;
case '/':
if(num2 == 0){
printf("Cannot divide by Zero");
break;
}
result = num1 / num2;
printf("%.1f / %.1f = %.1f", num1, num2, result);
break;
case '%':
mod_result = (int)num1 % (int)num2;
printf("%.0f %% %.0f = %d", num1, num2, mod_result);
break;

default:
printf("Invalid Operator. Try Again.");
break;
}
printf("\nContinue? (Y/N) : ");
scanf(" %c", &operator);
if(operator == 'N' || operator == 'n'){
printf("Thank you for using Calculator");
return 0;
}
printf("\n\n");
goto repeat;
return 0;
}
/*    ***calculator***
```

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        operations :
              + : Addition
              - : Subtraction
              * : Multiplication
              / : Division
              % : Modulus
enter first operand:4
enter second operand:7
enter operation:+
4.0 + 7.0 = 11.0
Continue? (Y/N) : y


enter first operand:2
enter second operand:1
enter operation:-
2.0 - 1.0 = 1.0
Continue? (Y/N) : N
Thank you for using Calculator */
```