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/*
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Aim   : WAP to design a menu driven calculator using switch statement.
*/

#include <stdio.h>
int main()
{
float num1,num2,result;
int mod_result;
char operator;

printf("\t\t\t*** Calculator ***\n\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\n");

repeat:

printf("\nEnter First Operand: ");
scanf("%f",&num1);
printf("\nEnter Second Operand: ");
scanf("%f",&num2);
printf("\n Enter Operator: \n");
scanf(" %c", &operator);

switch(operator)
{
case '+':
result = num1 + num2;
printf("%.1f + %.1f = %.1f", num1, num2, result);
break;
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 '/':
if(num2 == 0)
{
printf("Cannot divide by Zero");
break;
}
else
{
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;
}
else
{
printf("\n\n");
goto repeat;
}
return 0;
}
```

*** Calculator ***

Operations :

+ : Addition

- : Subtraction
* : Multiplication
/ : Division
% : Modulus

Enter First Operand: 5

Enter Second Operand: 2

Enter Operator:
%
5 % 2 = 1
Continue? (Y/N) :y

Enter First Operand: 5

Enter Second Operand: 2

Enter Operator:

5.0 / 2.0 = 2.5
Continue? (Y/N) :n
Thank you for using Calculator