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/* Experiment No:- 3
   Title       :-WAP to design a menu driven calculator using switch and goto
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   Roll No  :-18
   UIN      :-241P019*/
```

```
#include <stdio.h>
```

```
int main() {
    printf("\t\t\t\t\t*****Menu Driven Calculator*****\n");
    float a, b, result;
    char operation, cont;

    printf("+:-Addition\n");

    printf("-:-Subtraction\n");

    printf("*:-Multiplication\n");

    printf("/:-Division\n");

    printf("%%:-Modolus\n");
```

```
Start: // Label for goto
```

```
// Enter any number and operation.
printf("Enter the Num-1:-");
```

```
scanf("%f", &a);
```

```
printf("Enter the Num-2:-");
```

```
scanf("%f", &b);
```

```
printf("Enter the operation:-");
```

```
scanf(" %c", &operation);
```

```
switch (operation) {
```

```
case '+':
    result = a + b;
    printf("%.2f + %.2f = %.2f\n", a, b, result);
    break;
```

```
case '-':
    result = a - b;
    printf(" %.2f - %.2f = %.2f\n", a, b, result);
    break;
```

```
case '*':
    result = a * b;
    printf("%.2f * %.2f = %.2f\n", a, b, result);
    break;
```

```
case '/':
    if (b != 0) {
        result = a / b;
        printf("%.2f / %.2f = %.2f\n", a, b, result);
    }
    else {
        printf("Error:-Division by zero is not allowed.\n");
    }
    break;
```

```

case '%':
    result = (int)a % (int)b;
    printf("%.2f mod %.2f = %.2f\n", (int)a, (int)b, (int)result);
    break;

default:
    printf("Invalid Operation\n");
    return 0;
}
printf("Continue ? (Y/N):");
scanf(" %c", &cont);
if (cont == 'T') {
    printf("Thank you for using Calculator");
    return 0;
}
    goto Start; // Go back to start of the menu
return 0;
}

/*output
Menu Driven Calculator*****
+:-Addition
-:-Subtraction
*:-Multiplication
/:-Division
%:-Modulus
Enter the Num-1:-50
Enter the Num-2:-50
Enter the operation:-+
50.00 + 50.00 = 100.00*/

```

