USN - 1BM19ECS033

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15/9/2020 EXPT - 1 Week 1

1) Write a menu driven C program to design a simple calculator which solves 10 operations. 4 - arithmetic, 4 relational & any two others. The program should loop till the user wishes to stop.

```
# include <stdio.h>

int main(void) {
    int opt, n1, n2, op;
    while (opt != 11) {

        printf ("choose an option from the following: \n");
        printf ("1. Addition \n");
        printf ("2. Subtraction \n");
        printf ("3. Multiplication \n");
        printf ("4. Division \n");
        printf ("5. Compare greater \n");
        printf ("6. Compare lesser \n");
        printf ("7. Compare greater or equal \n");
        printf ("8. Compare lesser or equal \n");
        printf ("9. Compare equal \n");
        printf ("10. Remainder \n");
        printf ("11. Quit \n");

        Scanf ("%d, &opt);

        Switch (opt) {
            Case 1:
                printf ("Enter two integer values \n");
                Scanf ("%d%d", &n1, &n2);
                op = n1 + n2;
                printf ("Sum = %d \n", op);
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        break);
case 2:
    printf("Enter two integer values \n");
    scanf("%d %d", &n1, &n2);
    op = n1 - n2;
    printf("Diff = %d \n", op);
    break;
Case 3:
    printf("Enter two integer values \n");
    scanf("%d %d", &n1, &n2);
    op = n1 * n2;
    printf("product = %d \n", op);
    break;
Case 4:
    printf("Enter two integer values \n");
    scanf("%d %d", &n1, &n2);
    op = n1 / n2
    printf("Quotient = %d \n", op);
    break
Case 5:
    printf("Enter two integer values \n");
    scanf("%d %d", &n1, &n2);
    op = n1 < n2 ? printf("Lesser = %d \n", n1);
                   printf("Lesser = %d \n", n2);
    break;
Case 5:
    printf("Enter 2 integer values \n");
    scanf("%d %d", &n1, &n2);
    n1 > n2 ? printf("Greater = %d \n", n1);
              printf("Greater = %d \n", n2);
    break;
Case 7:
    printf("Enter Two integer values \n");
    scanf("%d %d", &n1, &n2);
```

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n1 >= n2 ? printf ("True \n"): Printf
                    ("False \n");
    break;
Case 8:
    printf (" Enter two integer values \n");
    Scanf ("%d %d", &n1, &n2);
    n1 <= n2 ? printf ("True \n"):
                printf (" false \n");
    break;
Case 9 :
    printf ("Enter two integer values \n");
    Scanf ("%d %d, &n1, &n2);
    n1 == n2 ? printf (" True \n"):
                printf (" False \n");
    break;
case 10:
    printf (" Enter two integer values \n");
    Scanf ("%d %d", &n1, &n2);
    OP= n1%n2; printf (
    printf (" Remainder = %d\n", OP);
    break;

Case 11:
    printf ("Terminating .... \n");
    break;
default :
    printf (" Invalid value \n");
}
}
}
```