15/9/2020 OOJ - Lab

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1BM19CS006

1) Write a menu driven C Program to design a simple calculator which solves 10 operations. 4 arithmetic, 4 relational and any 2 of your choice. The program should loop till the user ~~wish~~ wishes to stop.

```
#include <stdio.h>
int main()
{
int n1, n2, opt;
printf ("Enter the first integer : ");
scanf ("%d", &n1);
printf ("\n Enter the second integer : ");
scanf ("%d", &n2);

printf ("\n Enter your option : \n");
printf ("1 - Addition. \n 2 - Subtraction - \n
    3 - Multiplication. \n 4 - Division. \n
    5 - Greater than. \n 6 - Lesser than. \n
    7 - ~~greater~~ Remainder. \n 8 - Not equal to. \n
    9 - Equal to. \n 10 - ~~Square~~ less than or equal to. \n
    11 - Exit.");
scanf ("%d", &opt);
switch (opt) {
case 1: ~~Sum~~ printf ("Sum of %d and %d is %d
    \n", n1, n2, n1+n2);
break;
```

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```
case 2: printf("Difference of %d and %d is %d \n",
        n1, n2, n1-n2);
break;

case 3: printf("Product of %d and %d is %d \n",
        n1, n2, n1*n2);
break;

case 4: printf("Division of %d and %d is %d \n",
        n1, n2, n1/n2);
break;

case 5: if (n1>n2)
        printf("Greatest of %d and %d is %d\n",
        n1, n2, n1);
break;

case 6: if (n1<n2)
printf("Lowest of %d and %d is %d \n",
        n1, n2, n1);
break;

case 7: printf("Remainder of %d and %d
is %d", n1, n2, n1 % n2);
break;
```

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```
case 8: if (n1 != n2)
        printf ("%d is not equal to %d \n", n1, n2);
        break;

case 9: if (n1 == n2)
        printf ("%d is equal to %d \n", n1, n2);
        break;

case 10: if (n1 <= n2)
        printf ("%d is less than or equal to %d \n",
        n1, n2);
        break;

default : printf ("Invalid operator \n");
        break;
}
return 0;
}
```

O/P: Enter the first integer : 7
Enter the second integer : 4
Enter your option:
1- Addition.
2- Subtraction.
3- Multiplication.
4- Division.
5- Greater than.
6- Lesser than.
7- Remainder.
8- Not equal to.
9- Equal to.
10- <=.
11- Exit.
3 Enter your option: 2
Subtraction of 7 and 4 is: 3