Experiment - 1

IBM19CS090
S Mohammed Ibrahim Rafid

Q) Write a menu driven C program to design a simple calculator which solves 10 operations - 4 Arithmetic, 4 relational and any two of your choice. The program should loop till the user wishes to stop.

Code:

```
#include <stdio.h>
#include <conio.h>
int main()
{
    char flag;
    int num1, num2, result=0;
    while(1)
    {
        printf("\n Enter First Value: ");
        scanf("%d", &num1);
        printf("\n Enter Operator \n + (addition), \n
            - (subtraction), \n * (multiplication), \n
            / (division), \n % (remainder), \n
            ^ (num1 (to the power) num2), \n
            < (less than ?), \n (greater than ?),
            \n = (equal to?), \n ! (not equal to?)
            \n\n");
        scanf("%d", &num2);
        switch(flag)
        {
            case '+':
            result = num1 + num2;
            printf("\n sum is = %d", result);
            break;
```

```
case '-':
result = num1 - num2;
printf ("\n Difference is = %d", result);
printf ("\n\n Enter Value Again for a New Input\n");
break;
case '*':
result = number1 * num2;
printf = ("\n Product is = %d", result);
printf = ("\n\n Enter Value again for a New Input\n");
break;
case '/':
result = num1 / num2;
printf ("\n Quotient is = %d", result);
printf ("\n\n Enter Value again for a New Input\n");
case '%':
result = num1 % num2;
printf ("\n Remainder is = %d", result);
printf ("\n\n Enter Value again for a New Input\n");
break;
case '>';
if (num1 >> num2)
    printf ("yes");
else
{
    printf ("\n\n yes");
    printf ("\n Enter Value Again for a New Input\n");
}
break;
case '=':
if (num1 = num2)
    printf ("yes");
```

```
else
{
    printf ("\n\n no");
    printf ("\n Enter value Again for New Input \n");
}
break;
case '^':
printf ("%.1f", pow (num1, num2));
break;
case '|':
if (num1 == num2)
    printf ("no");
else
{
    printf ("\n\n yes");
    printf ("\n Enter value Again for New Input \n");
}
break;
default:
printf ("\n Enter value Valid operator !!! \n");
printf ("\n\n Enter value Again for a New
                                Input \n");
}
return 0;
}
```

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