USN - 1BM19CS001

Name - Aakanksha Gupta

LAB-1.

C Program to design a simple calculator.

→

```
#include <stdio.h>
#include <math.h>
int main()
{
    int a, b, option;
    long long ans = 1;

    printf("Enter first number: ");
    scanf("%d", &a);
    printf("Enter second number: ");
    scanf("%d", &b);

    printf("Enter your option :\n");
    printf("\n 1-Addition\n 2-Subtraction\n 3-Multiplication\n
        4-Division\n 5-Check if equal\n 6-Check for greater number\n
        7-Check for lesser number\n 8-Average\n 9-a^b\n
        10-b^a\n");
    scanf("%d", &option);

    while (option != 11)
    {switch (option)
        { case 1:
            printf("Addition of %d and %d = %d\n", a, b, a+b);
            break;

        case 2:
            printf("Subtraction of %d and %d = %d\n", a, b, a-b);
            break;
```

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```
case 3 :
    printf("Multiplication of %d and %d = %d\n" a, b, a*b);
    break;

case 4;
    if (b==0)
    { printf("Can not divide by zero");
    } else
    { printf(" Division of %d and %d = %d\n", a, b, a/b); }
    break;

case 5:
    if(a==b){
            printf("Equal numbers\n");
            }
    else
        printf("Not equal");
    break;

case 6:
    if(a>b){
        printf("%d is greater than %d\n", a,b);
            }
    else
        printf("%d is greater than %d\n", b,a);
    break;

case 7:
    if(a>b){
        printf("%d is less than %d\n", b,a)
    }
    else
```

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```
        printf("%d is less than %d\n", a, b);
        break;

    case 8:
        printf("Average is %d\n", (a+b)/2);
        break;

    case 9:
        ans = pow(a,b);
        printf("a^b = %lld\n", &ans);
        break;

    case 10:
        ans = pow(b,a);
        printf("b^a = %lld\n", &ans);
        break;
    }
    scanf("%d", &option);
    }
    printf("You have exit from the calculator");
    return 0;
}
```