

MINI PROJECT

CALCULATOR

Problem statement:

write a program to enter two numbers and perform the arithmetic operations as per user preference

PROGRAM:

```
#include <stdio.h>
#include <string.h>
#include <math.h>
int main()
{
    float valueOne;
    float valueTwo;
    char operator;
    float answer;

    printf("Enter calculation:\n\n");
    scanf("%f %c %f", &valueOne, &operator, &valueTwo);

    switch(operator)
    {
        case '/': answer = valueOne/valueTwo;
```

```
    break;
case '*': answer = valueOne*valueTwo;
    break;
case '+': answer = valueOne+valueTwo;
    break;
case '-': answer = valueOne-valueTwo;
    break;
case '^': answer = pow(valueOne,valueTwo);
    break;
case ' ': answer = sqrt(valueTwo);
    break;
default: goto fail;
}
printf("%.9g%c%.9g = %.6g\n\n",valueOne,operator, valueTwo, answer);
goto exit;
fail:
printf("Fail.\n");
exit:
return 0;
}
```

OUTPUT:

```
Enter calculation:
7^9
7^9 = 4.03536e+07

...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter calculation:
68*786
68*786 = 53448

...Program finished with exit code 0
Press ENTER to exit console.
```

RESULT:

Hence the program is executed successfully and the output is verified

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