

1. Simple calculator with 10 - 4 arithmetic, 4 - relational and any other two functions/operations until user wants to exit.

```
#include <stdio.h>
#include <math.h>
#include <ctype.h>

void operation(int flag);

int main()
{
    int k = 1;
    operation(k);
    return 0;
}

void operation(int flag)
{
    int l; float x, y; char c;
    if (flag == 1)
    {
        printf ("\nEnter the two numbers : \n");
        scanf ("%f %f", &x, &y);

        printf ("In Enter the operation : \n <A: Addition> \n
                <S: Subtraction> \n <M: Multiplication> \n <D: Division> \n
                <U: To check greater> \n <L: To check lower> \n
                <C: To compare> \n <P: To check equal or not> \n
                <R: remainder> \n <F: To find Power> \n");

        fflush(stdin);
        scanf ("%c", &c);
        switch (toupper(c))
        {
            case 'A': printf ("\n %.2f + %.2f = %.2f \n", x, y, x+y);
                        break;
            case 'S': printf ("\n %.2f - %.2f = %.2f \n", x, y, x-y);
                        break;
            case 'M': printf ("\n %.2f * %.2f = %.2f \n", x, y, x*y);
                        break;
        }
    }
}
```

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case 'D': printf("In %0.2f / %0.2f = %0.2f\n", x,y,x/y);
    break;

case 'U': if(x>y)
    printf("In %0.2f > %0.2f\n", x,y);
else
    printf("In %0.2f ! > %0.2f\n", x,y);
    break;

case 'L': if(x<y)
    printf("In %0.2f < %0.2f\n", x,y);
else
    printf("In %0.2f ! < %0.2f\n", x,y);
    break;

case 'O': if(x==y)
    printf("In %0.2f == %0.2f\n", x,y);
else
    printf("In %0.2f != %0.2f\n", x,y);
    break;

case 'P': if(x!=y)
    printf("In %0.2f != %0.2f\n", x,y);
else
    printf("In %0.2f == %0.2f\n", x,y);
    break;

case 'Q': printf("In The remainder is %d\n", (int)x,(int)y);
    break;

case 'R': printf("In %0.2f to the power of %0.2f is
    %0.2f\n",x,y,pow(x,y));
    break;

default: printf("In Input Error!\n");
    {
        printf("Do you wish to continue: In (yes) 1 & (No) Any other
key?\n");
        scanf("%c", &key);
    }

```

```
operation(l);  
}  
  
return;  
}
```