**#include<stdio.h>**  
**#include<conio.h>**  
**#include<math.h>**

**int main(void) {**  
**int choice, i, a, b;**  
**float x, y, result;**  
**clrscr();**  
**do {**  
**printf(“\nSelect your operation (0 to exit):\n”);**  
**printf(“1. Addition\n2. Subtraction\n3. Multiplication\n4. Division\n”);**  
**printf(“5. Square root\n6. X ^ Y\n7. X ^ 2\n8. X ^ 3\n”);**  
**printf(“9. 1 / X\n10. X ^ (1 / Y)\n11. X ^ (1 / 3)\n”);**  
**printf(“12. 10 ^ X\n13. X!\n14. %\n15. log10(x)\n16. Modulus\n”);**  
**printf(“17. Sin(X)\n18. Cos(X)\n19. Tan(X)\n20. Cosec(X)\n”);**  
**printf(“21. Cot(X)\n22. Sec(X)\n”);**  
**printf(“Choice: “);**  
**scanf(“%d”, &choice);**  
**if(choice == 0) exit(0);**  
**switch(choice) {**  
**case 1:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = x + y;**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 2:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = x – y;**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 3:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = x \* y;**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 4:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = x / y;**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 5:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = sqrt(x);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 6:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = pow(x, y);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 7:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = pow(x, 2);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 8:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = pow(x, 3);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 9:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = pow(x, -1);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 10:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = pow(x, (1/y));**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 11:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**y = 3;**  
**result = pow(x, (1/y));**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 12:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = pow(10, x);**  
**printf(“\nResult: %f”, result);**  
**break;**  
**case 13:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = 1;**  
**for(i = 1; i <= x; i++) {**  
**result = result \* i;**  
**}**  
**printf(“\nResult: %.f”, result);**  
**break;**  
**case 14:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**printf(“\nEnter Y: “);**  
**scanf(“%f”, &y);**  
**result = (x \* y) / 100;**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 15:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = log10(x);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 16:**  
**printf(“Enter X: “);**  
**scanf(“%d”, &a);**  
**printf(“\nEnter Y: “);**  
**scanf(“%d”, &b);**  
**result = a % b;**  
**printf(“\nResult: %d”, result);**  
**break;**  
**case 17:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = sin(x \* 3.14159 / 180);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 18:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = cos(x \* 3.14159 / 180);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 19:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = tan(x \* 3.14159 / 180);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 20:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = 1 / (sin(x \* 3.14159 / 180));**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 21:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = 1 / tan(x \* 3.14159 / 180);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**case 22:**  
**printf(“Enter X: “);**  
**scanf(“%f”, &x);**  
**result = 1 / cos(x \* 3.14159 / 180);**  
**printf(“\nResult: %.2f”, result);**  
**break;**  
**default:**  
**printf(“\nInvalid Choice!”);**  
**}**  
**} while(choice);**  
**getch();**  
**return 0;**  
**}**