

```

import java.util.Scanner;

public class MathFunctions {
    public static void main (String[] args){
        Scanner sc = new Scanner(System.in);
        while(true){
            System.out.println("Choose an operation from the following :");
            int choice = sc.nextInt();
            float x,y;
            switch(choice){
                case 1:
                    System.out.println("Enter a number to find absolute value of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.abs(x));
                    break;
                case 2:
                    System.out.println("Enter a number to find ceiling of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.ceil(x));
                    break;
                case 3:
                    System.out.println("Enter a number to find cosine of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.cos(x));
                    break;
                case 4:
                    System.out.println("Enter a number to find exponential of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.exp(x));
                    break;
                case 5:
                    System.out.println("Enter a number to find floor of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.floor(x));
                    break;
                case 6:
                    System.out.println("Enter a number to find log of number x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.log(x));
                    break;
                case 7:
                    System.out.println("Enter two numbers to find minimum of x and y");
                    x = sc.nextFloat();
                    y = sc.nextFloat();
                    System.out.println("Answer : "+Math.min(x,y));
                    break;
                case 8:
                    System.out.println("Enter two numbers to find power of x to the power of y");
                    x = sc.nextFloat();
                    y = sc.nextFloat();
                    System.out.println("Answer : "+Math.pow(x,y));
                    break;
                case 9:
                    System.out.println("Enter a number to find sine of number x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.sin(x));
                    break;
                case 10:
                    System.out.println("Enter a number to find square root of x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.sqrt(x));
                    break;
                case 11:
                    System.out.println("Enter a number to find tan of number x");
                    x = sc.nextFloat();
                    System.out.println("Answer : "+Math.tan(x));
                    break;
                default: System.out.println("Invalid Input");
            }
        }
    }
}

```

Choose an operation from the following :

1

Enter a number to find absolute value of number

23.7

Answer : 23.7

Choose an operation from the following :

2

Enter a number to find ceiling of number

9.2

Answer : 10.0

Choose an operation from the following :

3

Enter a number to find cosine of number

0.0

Answer : 1.0

Choose an operation from the following :

4

Enter a number to find exponentiation of number

1.0

Answer : 2.718281828459045

Choose an operation from the following :

5

Enter a number to find floor of number

9.2

Answer : 9.0

Choose an operation from the following :

6

Enter a number to find log of number

5

Answer : 1.6094379124341003

Choose an operation from the following :

7

Enter two numbers to find max of their values

2.3

12.7

Answer : 12.7

Choose an operation from the following :

8

Enter two numbers to find min of their values

2.3

12.7

Answer : 2.3

Choose an operation from the following :

9

Enter two numbers to find power of their values

2.0

7.0

Answer : 128.0

Choose an operation from the following :

10

Enter a number to find sine of number

0.0

Answer : 0.0

Choose an operation from the following :

11

Enter a number to find square root of number

900.0

Answer : 30.0

Choose an operation from the following :

12

Enter a number to find tan of number

0.0

Answer : 0.0