Assignment 3

Q2. . WAP to make a simple calculator

```
#include<stdio.h>
#include int main()
{
int choice; double num1, num2, result;
printf("Simple Calculator\n");
printf("Available Choices:\n");
printf("1. Addition\n");
printf("2. Subtraction\n");
printf("3. Multiplication\n");
printf("4. Division\n");
printf("5. Logarithmic Value\n");
printf("6. Square Root\n");
printf("\nType any number from above: "):
scanf("%d", &choice);
switch (choice)
{
case 1:
printf("Enter two numbers: ");
scanf("%lf %lf", &num1, &num2);
result = num1 + num2;
printf("Result: %.2lf\n", result);
break;
case 2:
printf("Enter two numbers: ");
```

```
scanf("%lf %lf", &num1, &num2);
result = num1 - num2;
printf("Result: %.2If\n", result);
break;
case 3:
printf("Enter two numbers: ");
scanf("%lf %lf", &num1, &num2);
result = num1 * num2;
printf("Result: %.2If\n", result);
break;
case 4:
printf("Enter two numbers: ");
scanf("%lf %lf", &num1, &num2);
if (num2 != 0) { result = num1 / num2;
printf("Result: %.2If\n", result);
}
else
{
  printf("Error: Division by zero is not allowed.\n");
}
break;
case 5:
printf("Enter a number: ");
scanf("%lf", &num1);
result = log(num1);
printf("Logarithmic value: %.2lf\n", result);
break;
```

```
case 6:
printf("Enter a number: ");
scanf("%lf", &num1);
if (num1 >= 0)
{
  result = sqrt(num1);
  printf("Square root: %.2lf\n", result);
}
else
{
  printf("Error: Cannot calculate square root of a negative number.\n");
}
break;
default: printf("Invalid choice.\n");
break;
}
return 0;
}
```