

Question 1:

```
/*  
 * Write C program to find the maximum number out of the three, give numbers using  
 * if-else statement  
 */  
  
#include <stdio.h>  
  
int main(int argc, char **argv)  
{  
    float n1,  
          n2,  
          n3;  
  
    printf("Enter 3 numbers separated by a space> ");  
    scanf("%f %f %f", &n1, &n2, &n3);  
  
    if (n1 > n2 && n1 > n3)  
        printf("%.2f is the greatest\n", n1);  
    else if (n2 > n1 && n2 > n3)  
        printf("%.2f is the greatest\n", n2);  
    else if (n3 > n1 && n3 > n2)  
        printf("%.2f is the greatest\n", n3);  
    else  
        printf("The numbers are equal\n");  
  
    return 0;  
}
```

Question 2:

```

/*
 * Write C Program to make a Simple Calculator Using switch case.
 */

#include <stdio.h>

int main(int argc, char **argv)
{
    int choice;
    float n1,
          n2,
          result;

    do
    {
        printf("-1) Exit\n");
        printf("1) Addition\n");
        printf("2) Subtraction\n");
        printf("3) Multiplication\n");
        printf("4) Division\n");

        printf("Enter your choice by number> ");
        scanf("%d", &choice);

        switch(choice)
        {
            case -1:
                printf("Exiting...\n");
                continue;
        }

        printf("Enter 2 numbers> ");
        scanf("%f %f", &n1, &n2);

        switch(choice)
        {
            case 1:
                result = n1 + n2;
                break;
            case 2:
                result = n1 - n2;
                break;
            case 3:
                result = n1 * n2;
                break;
            case 4:
                switch ((int)n2)
                {
                    case 0:
                        printf("You Cannot Divide by 0\n");
                        continue;
                    default:
                        result = n1 / n2;
                        break;
                }
                break;
            default:
                printf("Please enter a valid choice\n");
                break;
        }

        printf("Result = %.3f\n\n", result);

    } while (choice != -1);

    return 0;
}

```

Question 3:

```
/*
 * Write C program to Check Whether a Number is Positive or Negative or Zero.
 */

#include <stdio.h>

int main(int argc, char **argv)
{
    float n;

    printf("Enter a number to check if its a positive or negative or zero> ");
    scanf("%f", &n);

    if (n == 0)
    {
        printf("you have entered ZERO\n");
    }
    else
        printf("Your number is %s\n", (n > 0) ? "Positive" : "Negative");

    return 0;
}
```

Question 4:

```
/*
 * Write C program to swap two numbers
 */

#include <stdio.h>

int main()
{
    float x,
          y,
          temp;

    printf("Enter 2 numbers separated by a space> ");
    scanf("%f %f", &x, &y);

    printf("Before Swap: X = %.3f, Y = %.3f\n\n", x, y);

    temp = x;
    x = y;
    y = temp;

    printf("After Swap: X = %.3f, Y = %.3f\n\n", x, y);

    return 0;
}
```