

① Simple calculator (C program)

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

```
void main()
```

```
{
```

```
int num1, num2, opt;
```

```
printf("Enter the first number");
```

```
scanf("%d", &num1);
```

```
printf("Enter the second number");
```

```
scanf("%d", &num2);
```

```
printf("In Input your option");
```

```
printf("1-Addition\n 2-Subtraction\n 3-Multiplication\n 4-Division\n 5-greater than\n 6-lesser than\n 7-equal\n 8-not equal\n 9-remainder\n 10-increment\n 11-exit.\n");
```

```
scanf("%d", &opt);
```

```
switch (opt) {
```

```
case 1: printf("%d + %d = %d\n", num1, num2, num1 + num2);  
break;
```

```
case 2: printf("%d - %d = %d\n", num1, num2, num1 - num2);  
break;
```

```
case 3: printf("%d * %d = %d\n", num1, num2, num1 * num2);  
break;
```

```
case 4: printf("%d / %d = %d\n", num1, num2, num1 / num2);  
break;
```

```
case 5: if (num1 > num2)  
{ printf("%d > %d\n", num1, num2);  
}
```

```
else
```

```
{ printf("%d > %d\n", num2, num1);  
}
```

```
break;
```

```
case 6: if (num1 < num2)
{ printf ("%d < %d \n", num1, num2);
}
```

```
else
{ printf ("%d < %d \n", num2, num1);
}
break;
```

```
case 7: if (num1 == num2)
{ printf ("%d = %d \n", num1, num2);
}
```

```
else
{ printf ("%d != %d \n", num1, num2);
}
break;
```

```
case 8: if (num1 != num2)
printf ("%d != %d \n", num1, num2);
else
printf ("%d = %d \n", num1, num2);
break;
```

```
case 9: printf ("%d mod %d = %d \n", num1, num2, num1 % num2);
break;
```

```
case 10: printf ("%d++ = %d \n", a, a+1);
printf ("%d++ = %d \n", b, b+1);
break;
```

```
case 11:
break;
```

```
default: printf ("Input correct option \n");
break;
```

```
}
}
```


② Write a C program to accept three numbers from the user and pass them as parameters to the user defined functions given below
sumaver () which finds sum and average of two nos. Prints
prnteven () which prints all the even numbers between the

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

```
int sumaver (int a, int b)
{
    int sum;
    sum = a + b;
    printf (" Sum = %d \n", sum);
    return sum/2;
}
```

```
void prnteven (int a, int b)
{
    int small, big, i;
    if (a > b)
    {
        small = b;
        big = a;
    }
}
```

```
else
{
    small = a;
    big = b;
}
```

```
printf (" Even numbers between two numbers are : \n");
for (i = small + 1; i < big; i++)
{
    if (i % 2 == 0)
        printf ("%d \n", i);
}
```

```
}
```

```
int main()
```

```
{
```

```
int a, b, c, avg, num1, num2;
```

```
printf("Enter three numbers\n");
```

```
scanf("%d %d %d", &a, &b, &c);
```

```
if ( c < a && c < b)
```

```
{ num1 = a;
```

```
num2 = b;
```

```
}
```

```
else if ( b < a && b < c)
```

```
{ num1 = a;
```

```
num2 = c;
```

```
}
```

```
else
```

```
{ num1 = b;
```

```
num2 = c;
```

```
}
```

```
avg = sumaver ( num1, num2);
```

```
printf("Average of two numbers is : %d\n", avg);
```

```
printf("num1, num2");
```

```
}
```