

Date: 18/09/2020
LAB-1

USN: IBM19CS168
Name: Suntha Patil

① Simple calculator using 'C' programme:

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

```
#include <math.h>
```

```
int main()
```

```
{ int a, b, c, i;
```

```
do
```

```
{ printf("Enter two numbers\n");
```

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

```
printf("Enter the character between 1 and 10 for  
the operations:\n 1. Sum\n 2. Difference\n 3. Product\n 4. Division\n 5. Modulus\n 6. Greater than\n 7. Less than\n 8. Equals to\n 9. Not equals to\n 10. Greater than or equal to\n");
```

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

```
switch(i)
```

```
{ case 1: printf("The sum of two numbers is  
Sum = %d\n", a+b);  
break;
```

```
case 2: printf("The difference of 2 numbers is  
Difference = %d\n", a-b);  
break;
```

```
case 3: printf("The product of two numbers is  
product = %d\n", a*b);  
break;
```

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

```
case 5: printf("The modulus of two numbers  
is modulus = %d\n", a%b);  
break;
```

case 6 : if (a > b)

printf("%.d > %.d\n", a, b);

else

printf("%.d > %.d\n", b, a);

break;

case 7 : if (a < b)

printf("%.d < %.d\n", a, b);

else

printf("%.d < %.d\n", b, a);

break;

case 8 : if (a == b)

printf("Two numbers are equal\n");

else

printf("%.d != %.d\n", a, b);

break;

case 9 : if (a != b)

printf("%.d != %.d\n", a, b);

else

printf("Given two numbers are equal\n");

break;

case 10 : if (a >= b)

printf("%.d >= %.d\n", a, b);

else

printf("%.d is not greater than or equal to
%.d\n", a, b);

default : printf("Enter the valid character\n");

} printf("Enter the key 1 if you want to continue
or any other character if you want to terminate");

scanf("%.d", &c);

if (c == 1)

break;

} while(1)

18/07/2020/

LAS-1 (Program 2)

IBM19C168
Swetha Patai

```
(2) #include <stdio.h>
#include <math.h>
float sumavg(int, int);
int printeven(int, int);
int main()
{
    int a, b, c, g1, g2;
    float average;
    printf("Enter three numbers\n");
    scanf("%d %d %d", &a, &b, &c);
    if (c < a && c < b)
    {
        g1 = a; g2 = b;
    }
    else if (a < b && a < c)
    {
        g1 = b; g2 = c;
    }
    else
    {
        g1 = a; g2 = c;
    }
    average = sumavg(g1, g2);
    printf("The average of two greater number is: %f\n",
        average);
    printeven(g1, g2);
    return 0;
}

float sumavg(int g1, int g2)
{
    float sum, average;
    sum = g1 + g2;
    aver = sum/2;
    return aver;
}
```

```
int printeven(int g1, int g2)
{
    int i, large, small;
    if (g1 > g2)
    {
        large = g1;
        small = g2;
    }
    else
    {
        large = g2;
        small = g1;
    }
    printf("The even numbers between two large  
numbers are:\n");
    for (i = small + 1; i < large; i++)
    {
        if (i % 2 == 0)
            printf("%d\n", i);
    }
    return 0;
}
```