214189E – G.G.P.C. SENARATHNA.

Function Exercises.

01)

```
#include <stdio.h>

float circleArea(float r); // user-define function.
int main() { // library function.
    float Area;
    Area = circleArea(7);
    printf("%f", Area);
}

float circleArea(float r) {
    float circleArea = 3.14159 * r * r;
    return circleArea;
}
```

02)

```
#include <stdio.h>
float average(float x,float y,float z,float p,float q); //user-define
function.
int main() { // library function.
    float ave; // ave means average.
    ave = average(6,9,4,5,13);
    printf("%.1f", ave);
}
float average(float x,float y,float z,float p,float q) {
    float average = (x+y+z+p+q)/5;
    return average;
}
```

03)

Method – 01.

```
#include <stdio.h>
int sum(int x,int y); // user-define function.
int sub(int x,int y); // "
int mul(int x,int y); // "
int div(int x,int y); // "
int mod(int x,int y); // "
int main() { // library function.
   int summation = sum(6,3);
   printf("%d\n", summation);

int subtraction = sub(6,3);
   printf("%d\n", subtraction);
```

```
int multiplication = mul(6,3);
    printf("%d\n", multiplication);

int division = div(6,3);
    printf("%d\n", division);

int modulus = mod(6,3);
    printf("%d\n", modulus);

}

int sum(int x,int y) {
    int sum = x + y;
    return sum;

}

int sub(int x,int y) {
    int sub = x - y;
    return sub;

}

int mul(int x,int y) {
    int mul = x * y;
    return mul;

}

int div(int x,int y) {
    int div = x / y;
    return div;

}

int mod(int x,int y) {
    int mod = x % y;
    return mod;

}
```

Method – 02.

```
return calculate;
case '-':
    calculate = x - y;
    return calculate;
case '*':
    calculate = x * y;
    return calculate;
case '/':
    calculate = x / y;
    return calculate;
default:
    calculate = pow(x,y);
    return calculate;
}
```