SOL_ PW _N° 03

SOL Exercise N° 01:

Q1: Program 01

```c
// C program to add two
integer numbers
#include <stdio.h>
int main() {
    int a=5, b=10 ;
    int sum ;
    sum = a + b;
    printf("Sum= %d", sum);
    return 0;
}
```

Q1 Program
OUT PUT :
Sum=15

Q2 Program 01
OUT PUT :
Enter two integers:
5
10
The sum is: 15

Q2 Program 02
OUT PUT :
Enter two integers:
5
10
5+10= 15

Q2 :Program 01

```c
// C program to add two
integer numbers
#include <stdio.h>
int main() {
int a, b, sm ;
printf("Enter two integers:");
scanf("%d %d", &a, &b);
sm = a + b;
printf("The sum is: %d",sm);
return 0;
}
```

Q2 :Program 02

```c
//C program to add two numbers
 #include <stdio.h>
 int main() {
 int a, b, s;
//Read two numbers from the user
 printf("Enter two integers:");
 scanf("%d %d", &a, &b);
//Calculate the Sum
   s= a + b;
 printf("%d+%d= %d\n",a,b,s);

return 0;
  }
```

SOL Exercise N° 02:

Q1: Program 01

```c
/*C program to add 2 float
numbers and 1 integer */
#include <stdio.h>
int main() {
   float a=0.5, b=10.3, sum ;
    int c=201 ;
    sum = a + b+c;
    printf("Sum: %.2f", sum);
    return 0;
}
```

Q1 Program
OUT PUT :
Sum: 211.80

Q2 :Program 01

```c
/*C program to add 2 float numbers
 and 1 integer */
#include <stdio.h>
int main() {
float a, b, s;
int c;
//Read 3 numbers from the user
printf("Enter 2 float and 1 integer:\n");
scanf("%f %f %d",&a,&b,&c);
//Calculate the Sum
 s= a+b+c;
printf("Sum= %.2f", s);
return 0;
}
```

Q2 Program
OUT PUT :
Enter 2 float and 1 integer:
0.5
10.3
201
Sum= 211.80

SOL Exercise N° 03:

Q1: Program 01

```c
/*C program to multiply two integer numbers*/
#include <stdio.h>
int main() {
    int a=4, b=5,m;
// calculate the product
    m=a*b;
    printf("Prod= %d", m);
    return 0;
}
```

Q1 Program
OUT PUT :
Prod= 20

Q2 Program 01
OUT PUT :
Prod= 705.74

Q3 Program 01
OUT PUT :
Enter 2 float and 2 integer:
2.5
3.4
2
5
Prod= 85.00

Q2 :Program 01

```c
/*C program to multiply three floating-Point numbers*/
#include <stdio.h>
int main() {
float a=4.5, b=5.2,c=30.16,m;
// calculate the product
    m=a*b*c;
    printf("Prod= %.2f", m);
    return 0;
}
```

Q3 :Program 01

```c
/*C program to  to multiply 2 float  and 2 integer numbers*/
#include <stdio.h>
int main() {
    float a, b, p;
    int c,d;
printf("Enter 2 float and 2 integer:\n");
scanf("%f %f %d %d",&a,&b,&c,&d);
// calculate the product
p=a*b*c*d;
printf("Prod= %.2f",p);
return 0;
}
```

SOL Exercise N° 04:

Q1: Program 01

```c
#include <stdio.h>
int main() {
int x=3, y=2;
float result;
//Calculate the division
 result = (float)x/y;
 printf("div_result=%.1f\n",result);
 return 0;
}
```

Q1 Program
OUT PUT :
div_result=1.5

Q2: Program 01

```c
#include <stdio.h>
int main() {
int x, y;
float result;
//Read 2 numbers from the user
printf("input two integers:\n ");
scanf("%d%d", &x, &y);
// Check if division is possible
  if(y!= 0) {
     result = (float)x/y;
     printf("div_result=%.1f\n",result);
    }
  else {
        printf("Division not possible.\n");
    }
    return 0;
}
```

Program Q2_ RUN 1
OUT PUT :
input two integers:
3
0
Division not possible.

Program Q2_ RUN 2
OUT PUT :
input two integers:
15
4
div_result=3.8

SOL Exercise N° 05:

Q1: Program 01

```c
/*C program to perform all arithmetic
operations */
#include <stdio.h>
int main() {
int num1, num2;
int sum, sub, mult, mod;
float div;
// input two numbers from user
printf("Enter any two numbers: ");
scanf("%d%d", &num1, &num2);
//Perform all arithmetic operations
sum = num1 + num2;
sub = num1 - num2;
mult = num1 * num2;
div = (float)num1 / num2;
mod = num1 % num2;
// Print result of all arithmetic operations
printf("SUM = %d\n", sum);
printf("difference = %d\n", sub);
printf("product = %d\n", mult);
printf("quotient = %f\n", div);
printf(" mudulus = %d", mod);
return 0;
}
```

Q1 Program

OUT PUT :

Enter any two numbers:
15
4
SUM = 19
difference = 11
product = 60
quotient = 3.750000
mudulus = 3

SOL Exercise N° 06:

Q1: Program 01

```c
/*C program to convert temperature from degree fahrenheit
to celsius */
#include <stdio.h>
int main()
{
 float c, f;
 // Input temperature in fahrenheit
 printf("Enter temperature in Fahrenheit:\n ");
 scanf("%f", &f);
 /* Fahrenheit to celsius conversion formula */
 c = (f- 32) * 5 / 9;
 /* Print the value of celsius */
 printf("%.2f Fahrenheit = %.2f Celsius", f, c);
    return 0;
}
```

Q1 Program

OUT PUT :

Enter temperature in Fahrenheit:
65
65.00 Fahrenheit = 18.33 Celsius