Tutorial 07

Q01.

```
#include <stdio.h>
void calculate () {
   int sum, difference;
   int num1, num2;

   printf("Enter 1st number: ");
   scanf("%d", &num1);
   printf("Enter 2nd number: ");
   scanf("%d", &num2);

   sum = num1 + num2;
   difference = num1 - num2;

   printf("Sum is %d \n", sum);
   printf("Difference is %d \n", difference);

}
int main () {
   calculate();
}
```

Q02.

```
#include <stdio.h>

void calculate_sum_difference (int num1, int num2) {

   int sum, difference;

   sum = num1 + num2;
   difference = num1 - num2;

   printf("Sum is %d \n", sum);
   printf("Difference is %d \n", difference);
}

int main () {

   int x, y;

   printf("Enter 1st number: ");
   scanf("%d", &x);

   printf("Enter 2st number: ");
   scanf("%d", &y);

   calculate_sum_difference(x, y);
}
```

Q03.

```
#include <stdio.h>

int products (int num1, int num2) {

   int product;
```

```
    product = num1 * num2;

    return product;
}

int main () {

    int a, b;

    printf("Enter 1st number: ");
    scanf ("%d", &a);

    printf("Enter 2nd number: ");
    scanf("%d", &b);

    printf("The product is %d \n", products(a, b));
}
```

Q04.

```
#include <stdio.h>
float quotient (float num1, float num2) {

    float quotient;

    if (num2 == 0) {
        printf("Can not divide by zero");
    }
    else {
        quotient = num1 / num2;
    }

    return quotient;
}
```

```
int main () {

   float x, y;

   printf("Enter 1st number: ");
   scanf("%f", &x);
   printf("Enter 2nd number: ");
   scanf("%f", &y);

   printf("Quotient is %.2f\n", quotient(x, y));
}
```

Q05.

```
#include <stdio.h>

void calculate_sum () {

   int num1, num2, sum;

   printf("Enter 1st number: ");
   scanf("%d", &num1);

   printf("Enter 2nd number: ");
   scanf("%d", &num2);

   sum = num1 + num2;

   printf("Sum is %d\n", sum);
}

int main () {

   calculate_sum();
   calculate_sum();
```

```
    calculate_sum();
    calculate_sum();
}
```

Q06.

```
#include <stdio.h>

void calculate (int num1, int num2) {

    int sum, difference;

    printf("Sum: %d\nDifference: %d\nProducts: %d\n", num1 + num2, num1
- num2, num1 * num2);

}

int main () {

    int x, y;

    printf("Enter 1st number: ");
    scanf("%d", &x);

    printf("Enter 2st number: ");
    scanf("%d", &y);

    calculate (x, y);
}
```

Q07.

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

```
double product (int num1, float num2) {

   int product;

   product = num1 * num2;

   return product;
}

int main () {

   int x;
   float y;

   printf("Enter 1st number: ");
   scanf("%d", &x);

   printf("Enter 2nd number: ");
   scanf("%f", &y);

   printf("Product is %.2f\n", product(x, y));
}
```

Q08.

a. double hypotenuse (double side1, double side2);

b. int smallest (int x, int y, int z);

c. void instructions () {}

d. float intFloat (int number);