

1. Write a program print "Hello World" and "This is my first program"

Code:

```
#include <stdio.h>

int main() {
    printf("Hello world");
    printf("This is my first program");

    return 0;
}
```

Try and see the output by entering following escape sequence for above code.

Sample for \n:

```
#include <stdio.h>

int main() {
    printf("Hello world\n");
    printf("This is my first program\n");

    return 0;
}
```

\a Audible Alert or beep sound
\b Backspace delete on character to the left
\n Move cursor to the Next or New line of the screen
\v Vertical tab
\t Horizontal tab

2. Write a program to add 2 values.

```
#include <stdio.h>
int main() {

    int _a1, _a2, _sum; //why underscore? Add comments

    printf("Enter two integers: ");
    scanf("%d %d", &_a1, &_a2); //why &_a1

    // calculating sum
    _sum = _a1+_a2;
```

```

    printf("%d + %d = %d", _a1, _a2, _sum);
    return 0;
}

```

3. Debug the number 2 program.

main.c	Output
<pre> 1 #include <stdio.h> 2 int main() { 3 4 int _a1, _a2, _sum; //why underscore 5 6 printf("Enter two integers: "); 7 scanf("%d %d", &_a1, &_a2); //why &_a1 8 9 // calculating sum 10 _sum = _a1+_a2; 11 12 printf("%d + %d = %d", _sum, _a1, _a2); 13 return -10; //why return -10 14 } </pre>	<pre> /tmp/CJtvY4Blq3.o Enter two integers: 2 3 5 + 2 = 3 </pre>

4. Debug the number 2 program.

main.c	Output
<pre> 1 #include <stdio.h> 2 int main() { 3 4 int _a1, _a2, _sum; //why underscore? Add comments 5 6 printf("Enter two integers: "); 7 scanf("%d", &_a1, &_a2); //why &_a1 8 9 // calculating sum 10 _sum = _a1+_a2; 11 12 printf("%d + %d = %d", _a1, _a2, _sum); 13 return 0; 14 } 15 </pre>	<pre> /tmp/w0DonDIJnb.o Enter two integers: 2 3 2 + -449209184 = -449209182 </pre>

5. WAP to input any two floating point numbers through the keyboard and calculate addition, subtraction, product, division and modulus.

Sample for product:

6. WAP to input breadth and length of rectangle through keyboard and calculate area and perimeter. [area = l * b; peri = 2 * (l+b)]

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

```
int main() {
```

```
    double a, b, product;
```

```
    printf("Enter two numbers: ");
```

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

```
// why %lf? Write comment
```

```
// Calculating product
```

```
    product = a * b;
```

```
    printf("Product = %.2lf", product);
```

```
//why %.2lf? Try with %.3lf
```

```
    return 0;
```

```
}
```

7. WAP to calculate and print simple interest if values of p, t, r are given. [si = $p * t * r / 100$] (Give your own logic)