

1. Write a program with function to add given 2 integer numbers

a) Where the function return type is void and no parameters are passed to function

```
1  #include<stdio.h>
2  void add(){
3      int a,b;
4      scanf("%d%d",&a,&b);
5      printf("%d+%d=%d",a,b,a+b);
6
7  }
8  int main()
9  {
10     add();
11     return 0;
12 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

T study\Programs\Assignment_5\"q.a

4 5

4+5=9

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- b) When parameters are passed to function and function return type is void

```
1  #include<stdio.h>
2  void add(int a,int b){
3      printf("%d+%d=%d",a,b,a+b);
4  }
5  int main()
6  {
7      int a,b;
8      scanf("%d%d",&a,&b);
9      add(a,b);
10 return 0;
11 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

✓ **TERMINAL**

 **CODE** + v

\~NIT study\Programs\Assignment_5\"q_1_b

3 5

3+5=8

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c) When parameters are passed and function returns a result

```
1  #include<stdio.h>
2  ∨ int add(int a,int b){
3      return a+b;
4  }
5  ∨ int main()
6  {
7      int a,b,output;
8      scanf("%d%d",&a,&b);
9      output=add(a,b);
10     printf("%d+%d=%d",a,b,output);
11     return 0;
12 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

∨ **TERMINAL**

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3

11

3+11=14

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1. Write a program with a function to swap 2 numbers.

```
1  #include<stdio.h>
2  void swap(int *a,int *b){
3      int temp=*a;
4      *a=*b;
5      *b=temp;
6  }
7  int main()
8  {
9      int a,b;
10     scanf("%d%d",&a,&b);
11     printf("Before swapping:%d %d\n",a,b);
12     swap(&a,&b);
13     printf("After swapping:%d %d",a,b);
14     return 0;
15 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

✓ **TERMINAL**

4 6

Before swapping:4 6

After swapping:6 4

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2. Write a program with a function to find the power of numbers.

```
1  #include<stdio.h>
2  int power(int a,int b){
3      int ans=1;
4      while(b-->0) ans*=a;
5      return ans;
6  }
7  int main()
8  {
9      int a,b,output;
10     scanf("%d%d",&a,&b);
11     output=power(a,b);
12     printf("%d^%d=%d",a,b,output);
13     return 0;
14 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

✓ TERMINAL

C:\ CODE + ✓

T study\Programs\Assignment_5\"q_3

2 5

2^5=32

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4. Write a program with a function to find the sum of the first 50 natural numbers. The return type must be void and the result is expected to be printed in the main function.

```
1  #include<stdio.h>
2  void sum_50(int *ans){
3      for(int i=1;i<=50;i++) *ans+=i;
4  }
5  int main()
6  {
7      int output=0;
8      sum_50(&output);
9      printf("%d",output);
10 return 0;
11 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

✓ **TERMINAL**

```
t_5\" && gcc q_4.c -o q_4 && "d:\Documents_D_Drive\~NIT
T study\Programs\Assignment_5\"q_4
1275
D:\Documents_D_Drive\~NIT study\Programs\Assignment_5>
```