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EXPERIMENT 1 : STARTING WITH C

Activity 1: Write a C program to print “Hello World”.

ALGORITHM:

STEP 1: Start

STEP 2: Print Hello World

STEP 3 : Stop

PSEUDOCODE :

START

Print “Hello World”

END

CODE :

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

```
int main() {  
    printf("Hello World\n");  
    return 0;  
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS E:\Cprogramming works\LAB REPORT CODE> gcc .\helloworld.c
PS E:\Cprogramming works\LAB REPORT CODE> .\a.exe
Hello World
PS E:\Cprogramming works\LAB REPORT CODE>
```

Activity 2: Write C program to print the address in multiple lines (new line).

ALGORITHM:

STEP 1: Start

STEP 2: print 108

STEP 3: print Gola Road

STEP 4: print Patna

STEP 5: print Bihar

STEP 6: Stop

PSEUDOCODE :

ALGORITHM PrintAddress

BEGIN

STEP 1: Start

STEP 2: PRINT 108

STEP 3: PRINT "Gola Road"

STEP 4: PRINT "Patna"

STEP 5: PRINT "Bihar"

STEP 6: Stop

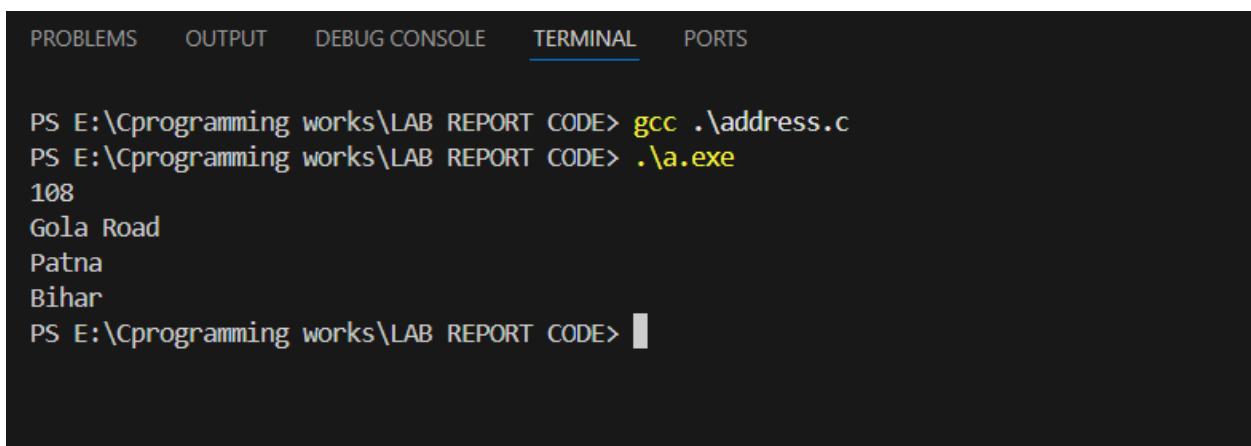
END

CODE :

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

```
int main() {
    printf("108\n");
    printf("Gola Road\n");
    printf("Patna\n");
    printf("Bihar\n");
    return 0;
}
```

OUTPUT:



```
PROBLEMS      OUTPUT      DEBUG CONSOLE      TERMINAL      PORTS

PS E:\Cprogramming works\LAB REPORT CODE> gcc .\address.c
PS E:\Cprogramming works\LAB REPORT CODE> .\a.exe
108
Gola Road
Patna
Bihar
PS E:\Cprogramming works\LAB REPORT CODE>
```

Activity 3: Write a program that prompts the user to enter his name name and age.

ALGORITHM :

Step 1: Start

Step 2: Declare variables name and age

Step 3: print Enter your name:

Step 4: read name

Step 5: print Enter your age:

Step 6: read age

Step 7: Stop

PSEUDOCODE :

BEGIN

STEP 1: Start

STEP 2: Declare variables name and age

STEP 3: PRINT "Enter your name: "

STEP 4: READ name

STEP 5: PRINT "Enter your age: "

STEP 6: READ age

STEP 7: Stop

END

CODE:

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

```
int main() {  
    char name[50];  
    int age;  
  
    printf("Enter your name: ");  
    scanf("%s", name);  
  
    printf("Enter your age: ");  
    scanf("%d", &age);  
  
    return 0;  
}
```

OUTPUT :

```
PROBLEMS      OUTPUT      DEBUG CONSOLE      TERMINAL      PORTS  
  
PS E:\Cprogramming works\LAB REPORT CODE> gcc .\name.c  
PS E:\Cprogramming works\LAB REPORT CODE> .\a.exe  
Enter your name: Priyadarshi  
Enter your age: 18  
PS E:\Cprogramming works\LAB REPORT CODE> []
```

Activity 4: Write a C program to add two numbers take the numbers from user.

ALGORITHM :

Step 1: Start

Step 2: Declare variables num1, num2

Step 3: print "Enter first number:"

Step 4: input num1

Step 5: print "Enter second number:"

Step 6: input num2

Step 7: sum = num1 + num2

Step 8: print sum

Step 9: Stop

PSEUDOCODE :

START

DECLARE num1, num2, sum AS INTEGER

DISPLAY "Enter first number: "

READ num1

DISPLAY "Enter second number: "

READ num2

sum ← num1 + num2

DISPLAY "Sum: ", sum

END

CODE :

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

```
int main() {
```

```
    int num1, num2, sum;
```

```
    printf("Enter first number: ");
```

```
    scanf("%d", &num1);
```

```
    printf("Enter second number: ");
```

```
    scanf("%d", &num2);
```

```
    sum = num1 + num2;
```

```
    printf("Sum: %d\n", sum);
```

```
    return 0;
```

```
}
```

OUTPUT :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\Cprogramming works\LAB REPORT CODE> gcc .\sum.c
PS E:\Cprogramming works\LAB REPORT CODE> .\a.exe
Enter first number: 50
Enter second number: 42
Sum: 92
PS E:\Cprogramming works\LAB REPORT CODE>
```

