

EXPERIMENT 1 : STARTING WITH C

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

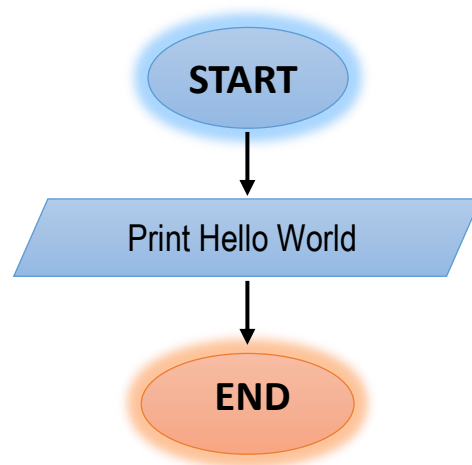
ALGORITHM:

STEP 1: Start

STEP 2: Print Hello World

STEP 3 : Stop

FLOWCHART :



PSEUDOCODE :

```
START  
print "Hello World"  
END
```

CODE :

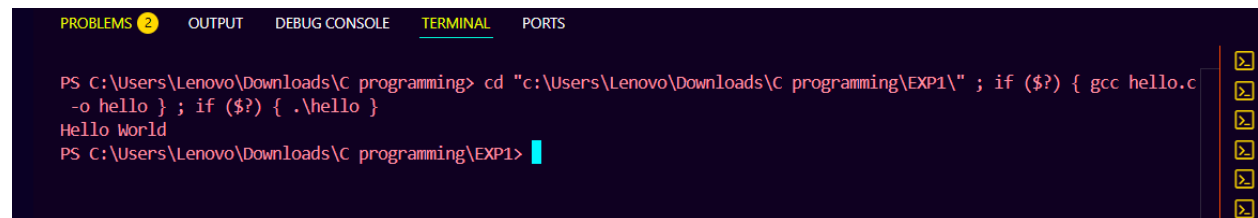
```
#include<stdio.h>

int main(){

    printf("Hello World");

    return 0;
}
```

OUTPUT :



```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Lenovo\Downloads\C programming> cd "c:\Users\Lenovo\Downloads\C programming\EXP1\" ; if ($?) { gcc hello.c
-o hello } ; if ($?) { .\hello }
Hello World
PS C:\Users\Lenovo\Downloads\C programming\EXP1>
```

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 Golden Estate

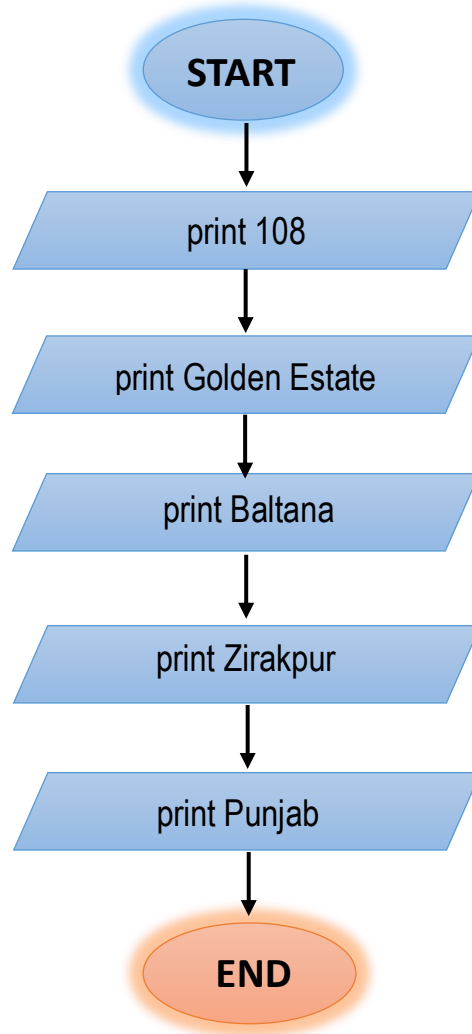
STEP 4: print Baltana

STEP 5: print Zirakpur

STEP 6: print Punjab

STEP 7: Stop

FLOWCHART :



PSEUDOCODE :

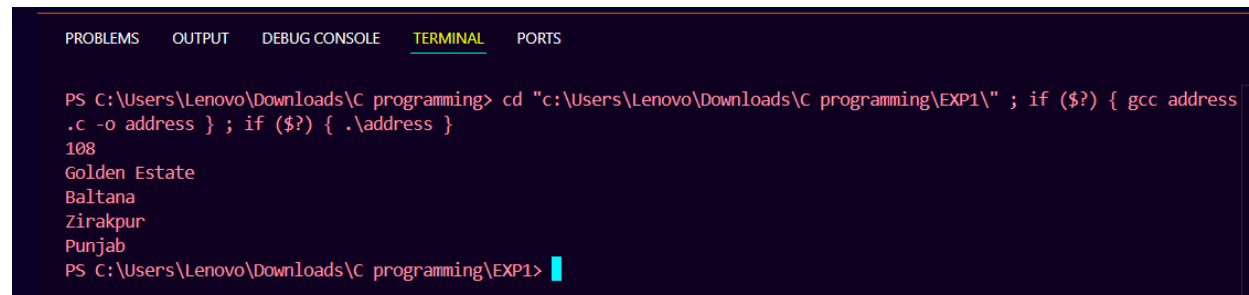
```
START  
print "108"  
print "Golden Estate"  
print "Baltana"  
print "Zirakpur"  
print "Punjab"  
END
```

CODE :

```
#include <stdio.h>

int main() {
    printf("108\n");
    printf("Golden Estate\n");
    printf("Baltana\n");
    printf("Zirakpur\n");
    printf("Punjab\n");
    return 0;
}
```

OUTPUT:



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\Lenovo\Downloads\C programming> cd "c:\Users\Lenovo\Downloads\C programming\EXP1\" ; if ($?) { gcc address
.c -o address } ; if ($?) { .\address }
108
Golden Estate
Baltana
Zirakpur
Punjab
PS C:\Users\Lenovo\Downloads\C programming\EXP1> █
```

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:

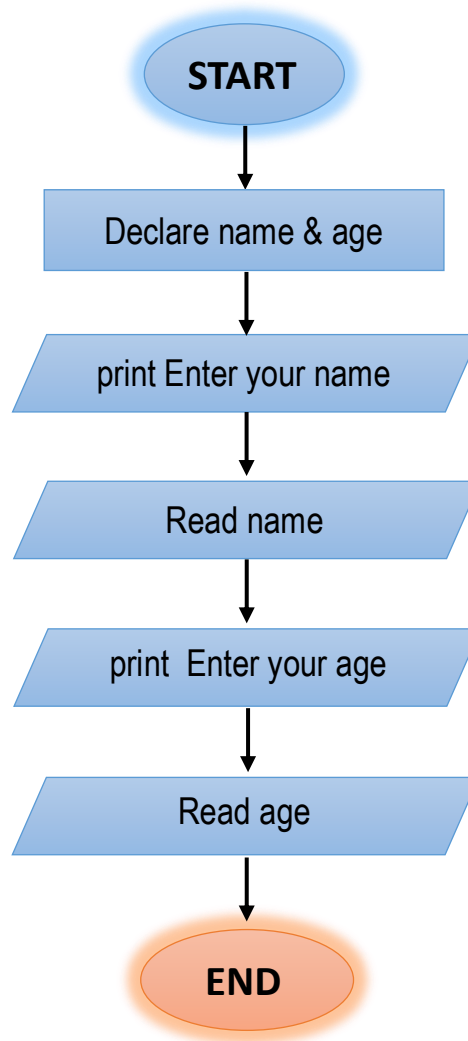
Step 4: read name

Step 5: print Enter your age:

Step 6: read age

Step 7: Stop

FLOWCHART :



PSEUDOCODE :

```
START  
  
declare name as string  
declare age as integer
```

```
print "Enter your name: "  
input name  
  
print "Enter your age: "  
input age  
  
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 C:\Users\Lenovo\Downloads\C programming\EXP1> cd "c:\Users\Lenovo\Downloads\C programming\EXP1\" ; if ($?) { gcc IN  
PUT.c -o INPUT } ; if ($?) { .\INPUT }  
Enter your name: Vivek  
Enter your age: 19  
PS C:\Users\Lenovo\Downloads\C programming\EXP1> █
```

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:"

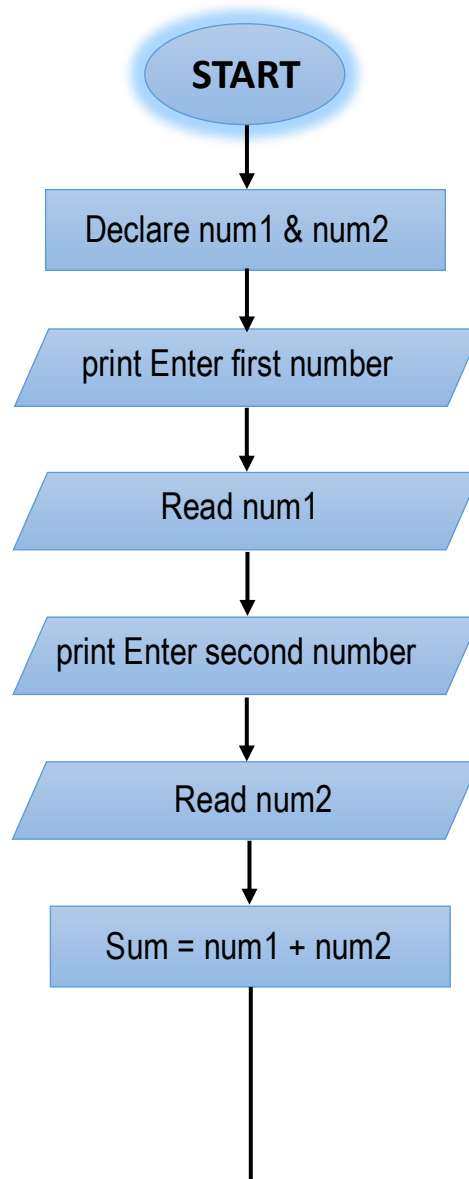
Step 6: input num2

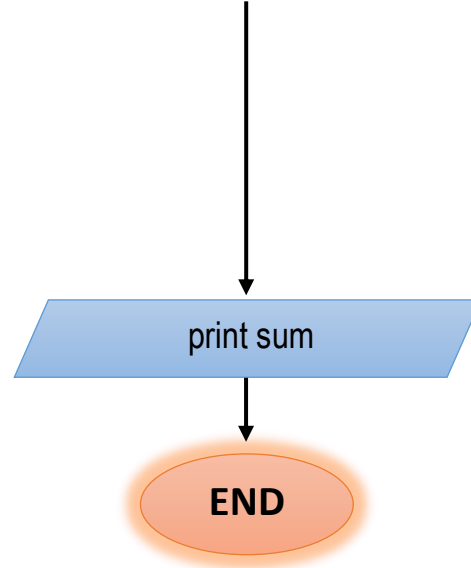
Step 7: $\text{sum} = \text{num1} + \text{num2}$

Step 8: print sum

Step 9: Stop

FLOWCHART :





PSEUDOCODE :

```
START  
  
declare num1, num2, sum AS integer  
  
print "Enter first number: "  
input num1  
  
print "Enter second number: "  
input num2  
  
sum ← num1 + num2  
  
print "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 C:\Users\Lenovo\Downloads\C programming> cd "c:\Users\Lenovo\Downloads\C programming\EXP1\" ; if ($?) { gcc sum.c -  
o sum } ; if ($?) { .\sum }  
Enter first number: 67  
Enter second number: -46  
Sum = 21  
PS C:\Users\Lenovo\Downloads\C programming\EXP1>
```