



EXPERIMENT 1 : STARTING WITH C

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

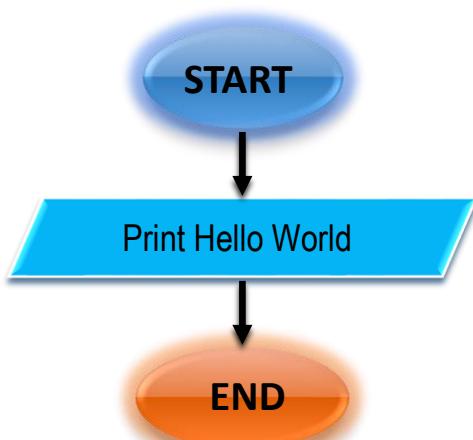
ALGORITHM:

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 :



The screenshot shows a terminal window with the following content:

```
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>
```

The terminal window has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. There are also several small square icons on the right side of the terminal window.

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

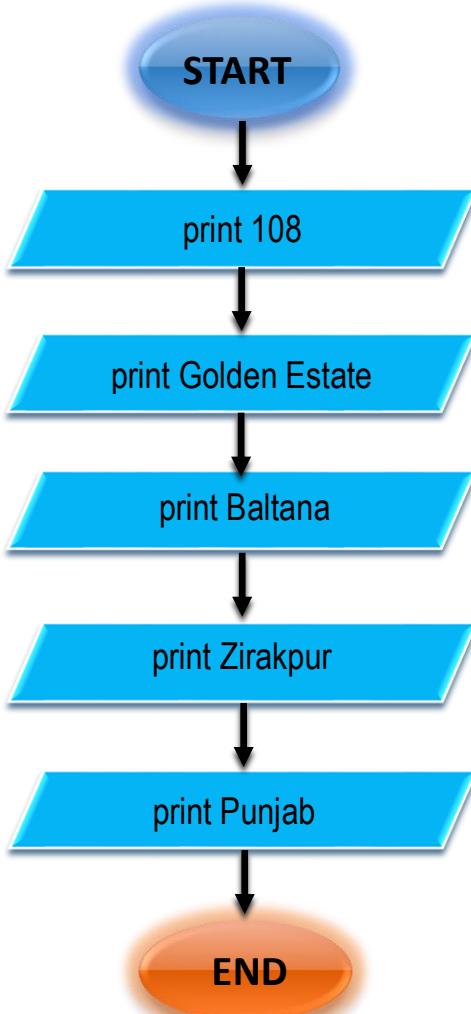
STEP 4: print Baltana

STEP 5: print Zirakpur

STEP 6: print Punjab

STEP 7: Stop

FLOWCHART :



PSEUDOCODE :

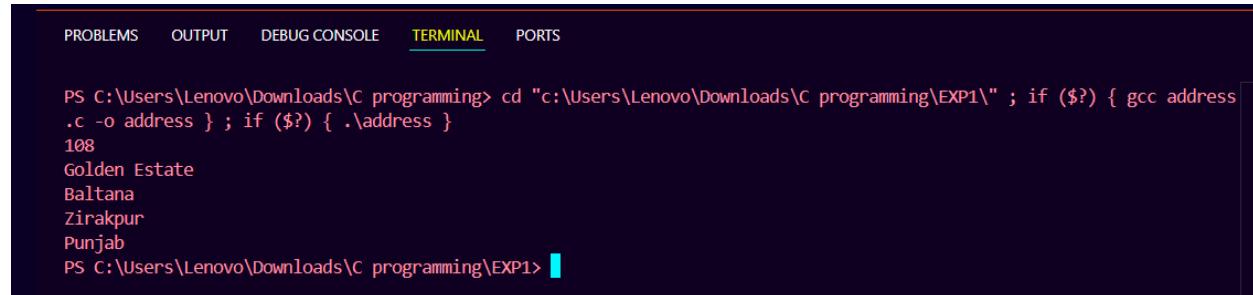
```
START
print "108"
print "Golden Estate"
print "Baltana"
print "Zirakpur"
print "Punjab"
END
```

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:

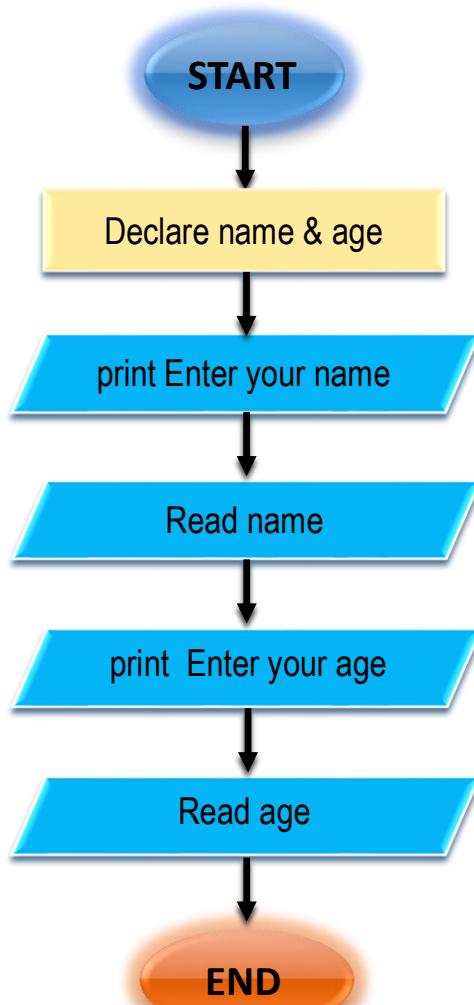
Step 4: read name

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>

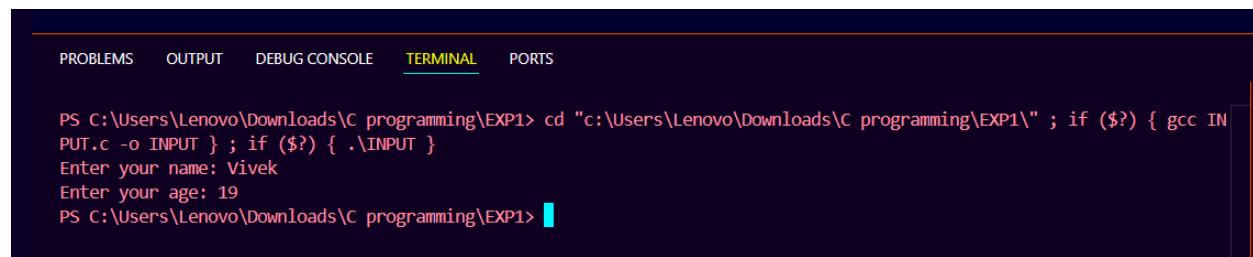
int main() {
    char name[50];
    int age;

    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 INPUT.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:"

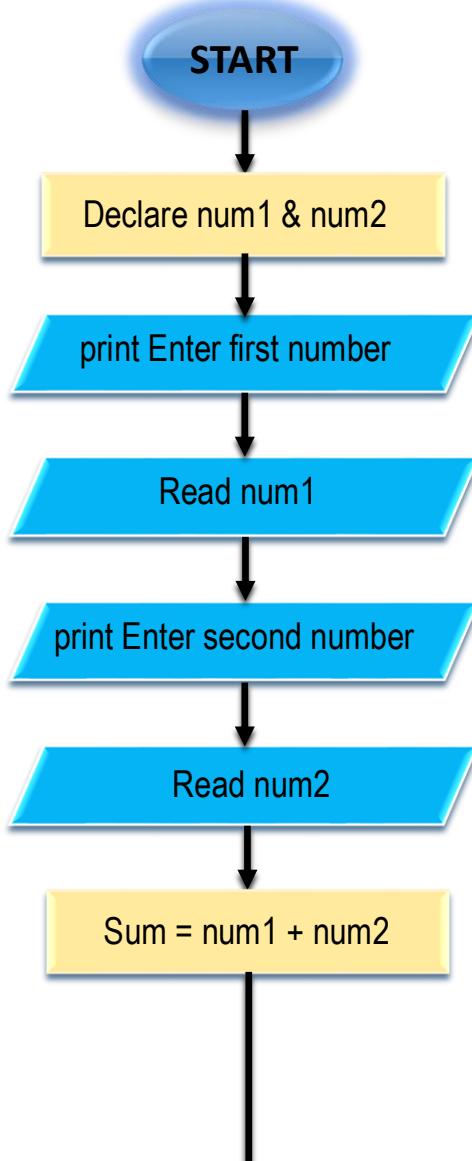
Step 6: input num2

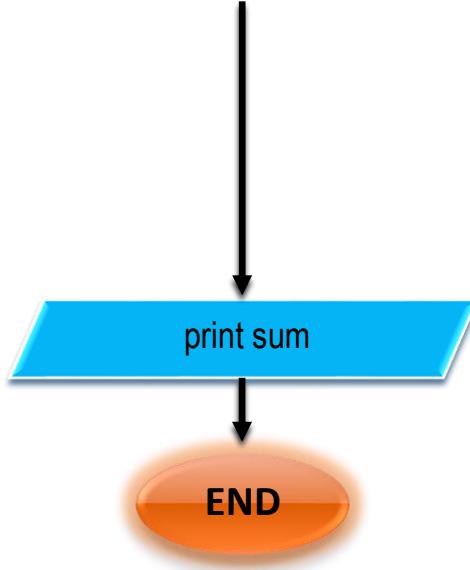
Step 7: sum = num1 + num2

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 :

The screenshot shows a terminal window with the following content:

```
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>
```

The terminal window has tabs at the top: PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is underlined), and PORTS. To the right of the terminal window, there is a vertical sidebar with several small icons, each followed by the word "Code".