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EXPERIMENT 1 : STARTING WITH C

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

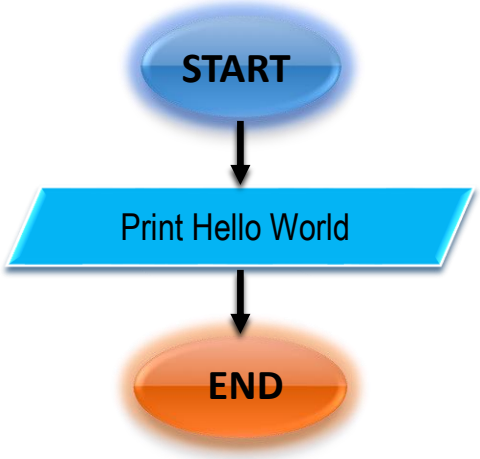
ALGORITHM:

STEP 1: Start

STEP 2: Print Hello World

STEP 3 : Stop

FLOWCHART :



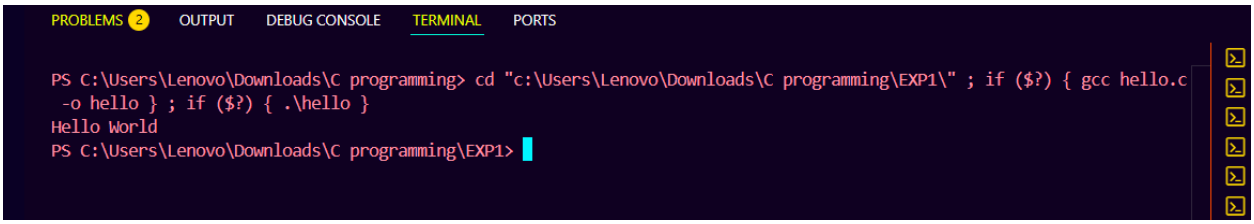
PSEUDOCODE :

```
START

print "Hello World"

END
```

CODE :

```c
#include<stdio.h>

int main(){

    printf("Hello World");

    return 0;
}
```

OUTPUT :



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

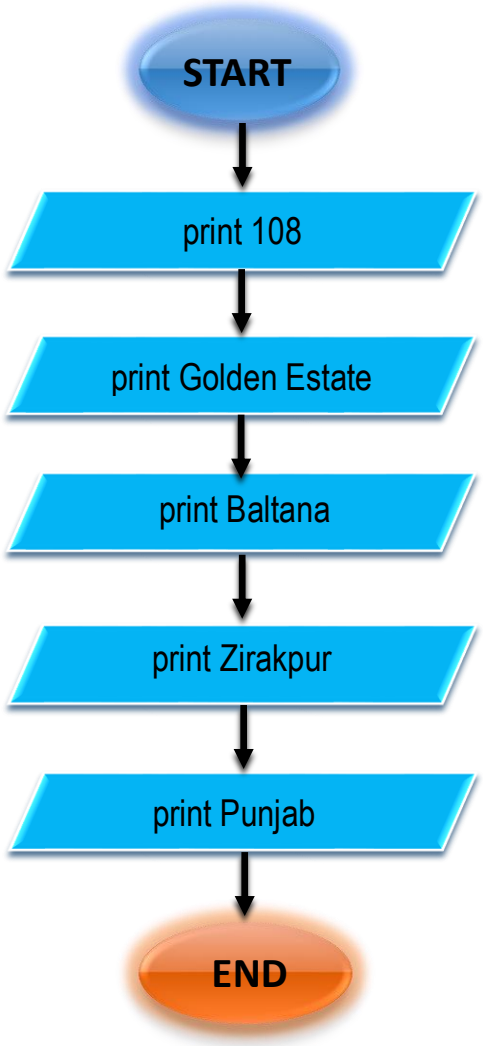
STEP 4: print Baltana

STEP 5: print Zirakpur

STEP 6: print Punjab

STEP 7: Stop

FLOWCHART :



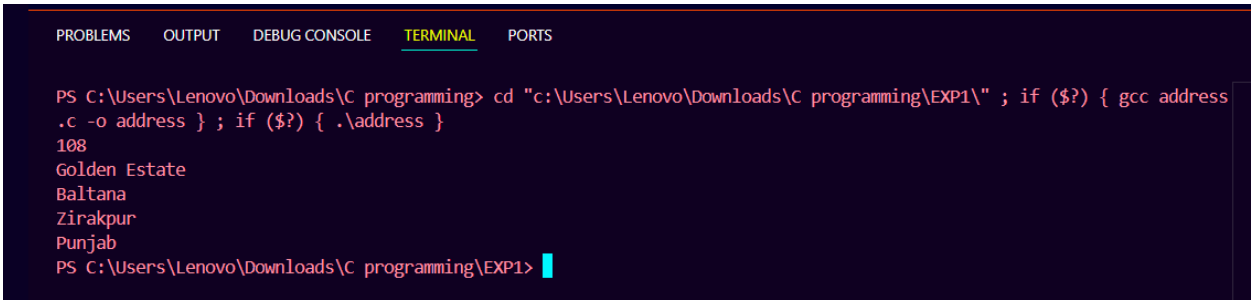
PSEUDOCODE :

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

CODE :

```c
#include <stdio.h>

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

OUTPUT:



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:

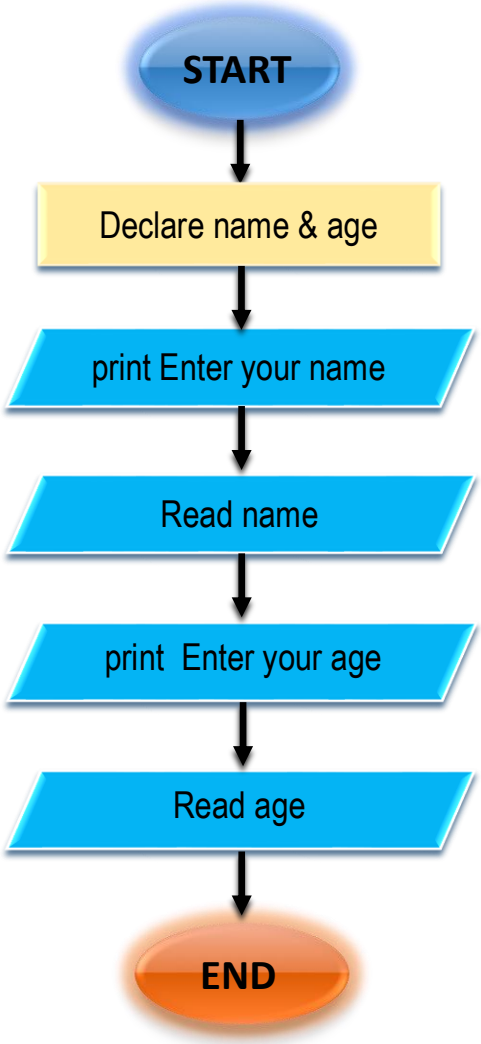
Step 4: read name

Step 5: print Enter your age:

Step 6: read age

Step 7: Stop

FLOWCHART :



PSEUDOCODE :

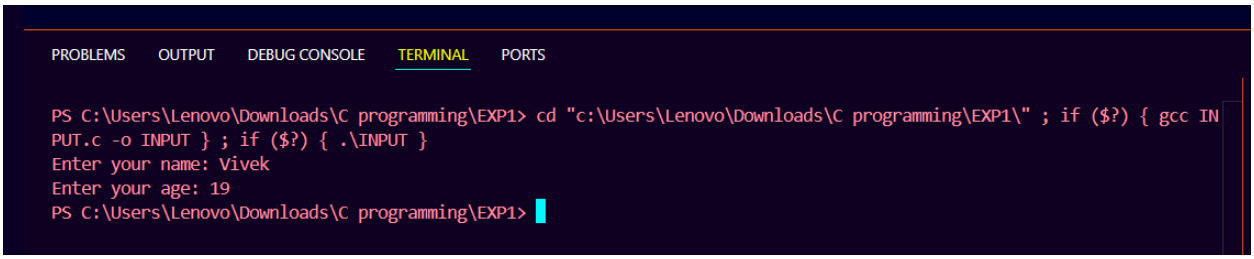
```
START

declare name as string
declare age as integer
```

```
print "Enter your name: "
input name

print "Enter your age: "
input age

END
```

CODE :

```c
#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 :

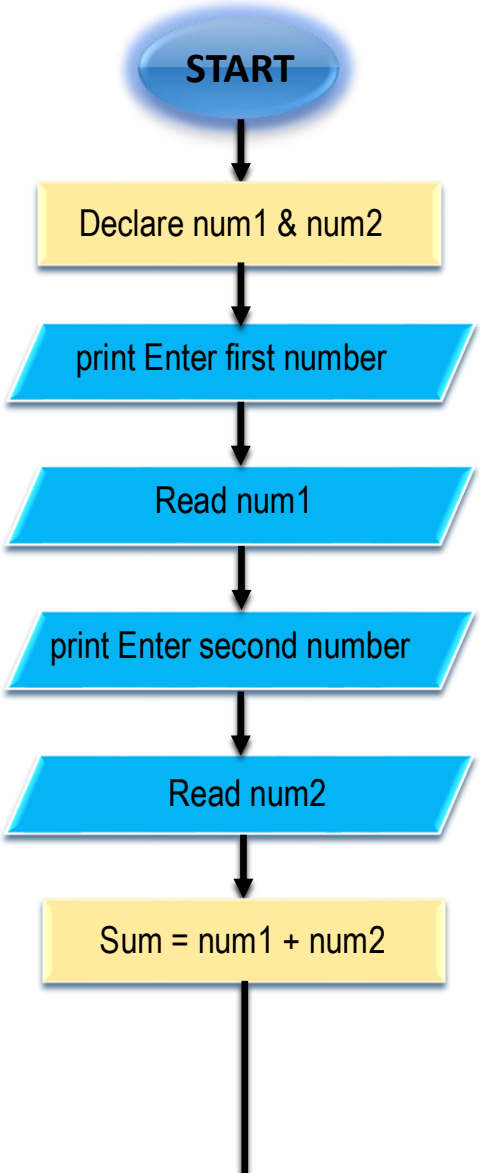


Activity 4: *Write a C program to add two numbers take the numbers form user.*

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 :



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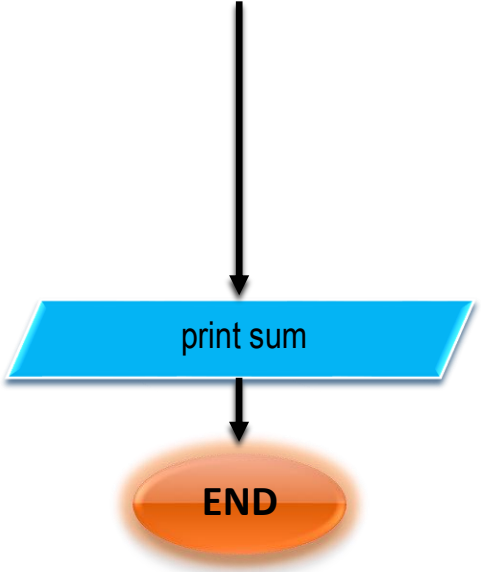

PSEUDOCODE :

```
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);
```

```c
    printf("Enter second number: ");
    scanf("%d", &num2);

    sum = num1 + num2;

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

    return 0;
}
```

OUTPUT :