Date

Expt. No. Page No.

Experiment 1: Installation, Environment Setup & Starting with C language.

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

Algorithm :

1. Start
2. Include Header File (<stdio.h>)
3. Define main function
4. Print "Hello World"
5. End program using return 0
6. Stop

Code :

```
#include <stdio.h>
        int main()
{
        printf("Hello world");
            return 0;
}
```

Teacher's Signature

OUTPUT:

```
[Running] cd "c:\Users\AKSHIT\OneDrive\Desktop\AkshitProject\" &&
gcc test.c -o test &&
"c:\Users\AKSHIT\OneDrive\Desktop\AkshitProject\"test
Hello world
[Done] exited with code=0 in 0.474 seconds
```

Date

Page No.

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

Algorithm:

1. Start
2. Include header file (<stdio.h>)
3. Define main function
4. Print each line of the address
5. Insert \n after each line (new line).
6. End program using return 0
7. Stop

Code:

```
#include <stdio.h>
    int main() {
        // Printing address in multiple lines
    printf("Akshit Sinha\n");
    printf("UPES Dehradun\n");
    printf("Bidholi Campus\n");
    printf("Dehradun, Uttarakhand\n");
```

Teacher's Signature

Date _____

Expt. No. _____ Page No. _____

```
    printf ("PIN - 248007\n");
    return 0;
}
```

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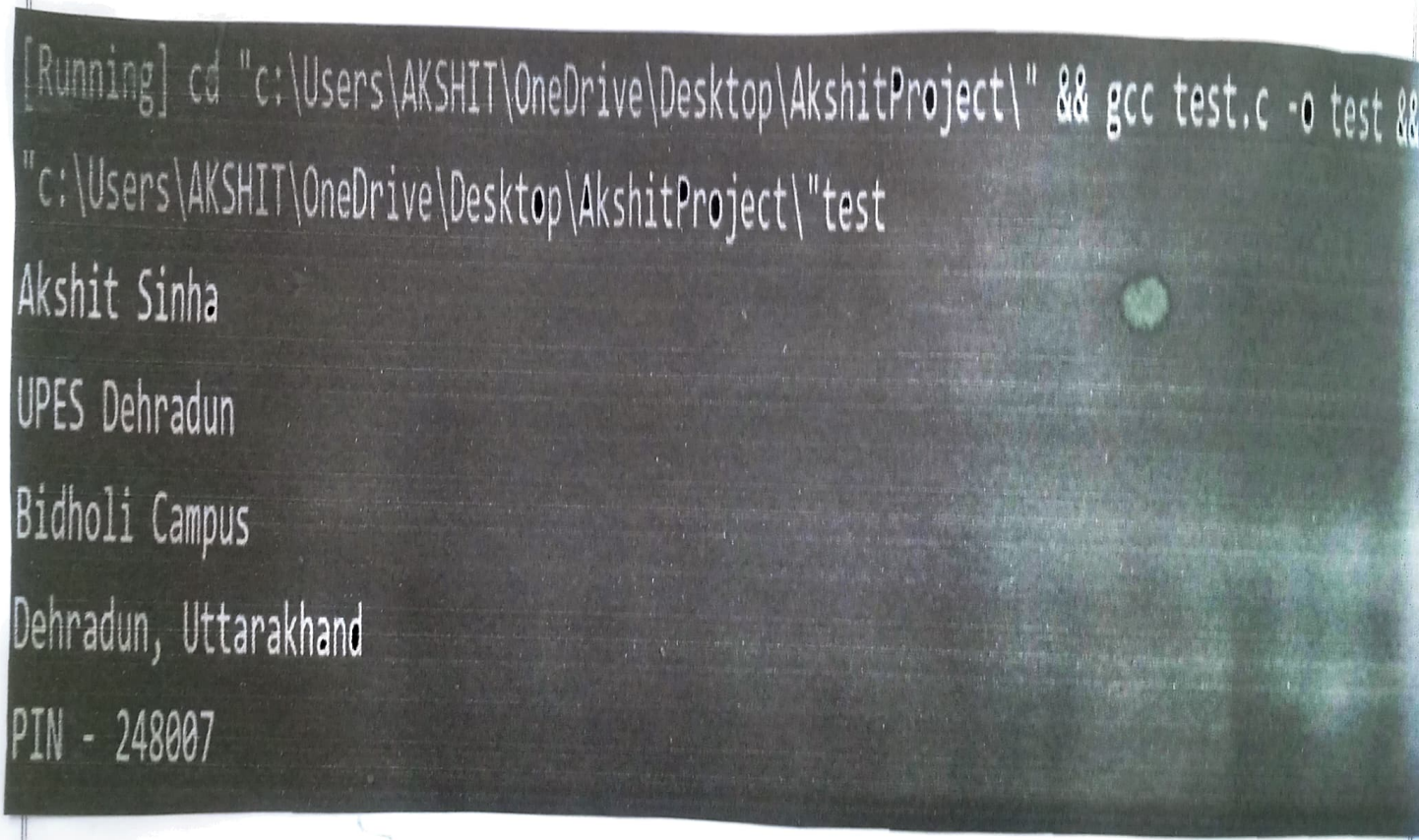
OUTPUT:


[Running] cd "c:\Users\AKSHIT\OneDrive\Desktop\AkshitProject\" && gcc test.c -o test &&
"c:\Users\AKSHIT\OneDrive\Desktop\AkshitProject\"test
Akshit Sinha
UPES Dehradun
Bidholi Campus
Dehradun, Uttarakhand
PIN - 248007

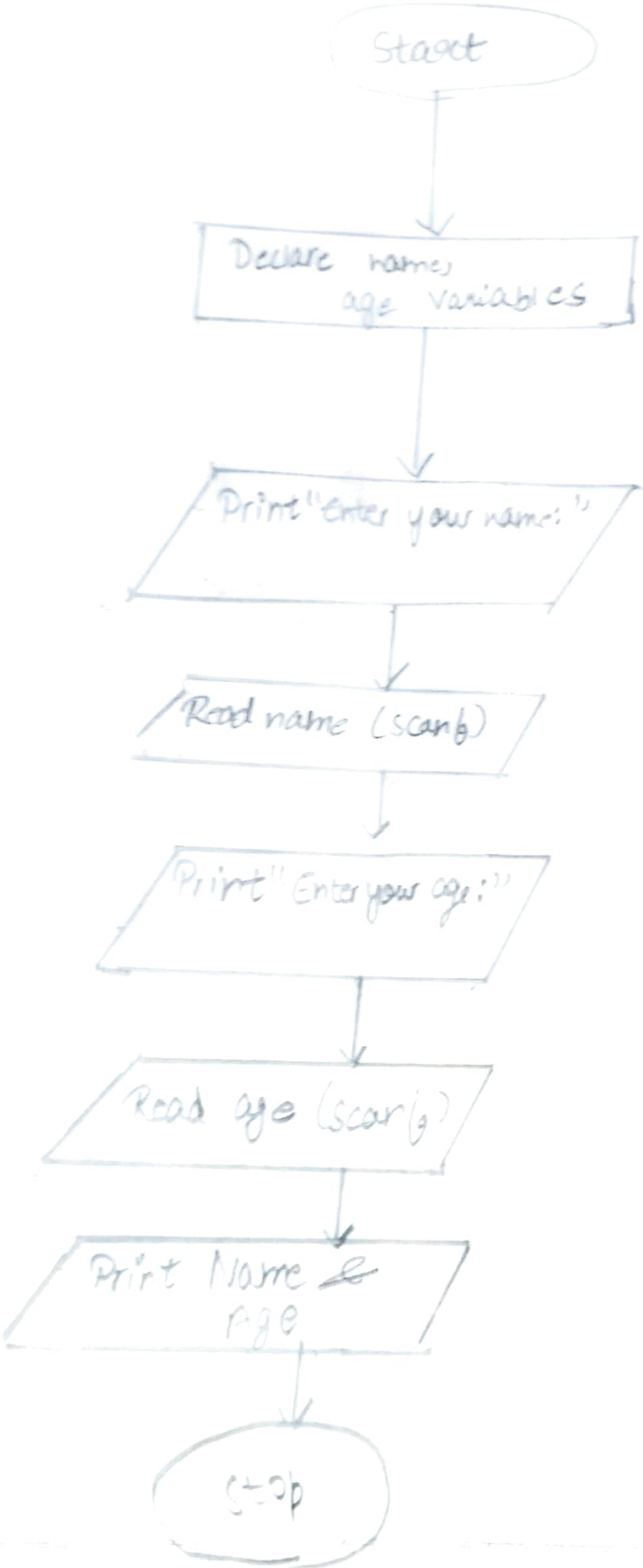
Expt. No. _____ Date _____ Page No. _____

3. Write a program that prompts the user to enter their name and age.

Algorithm:

1. Start
2. Declare Variables (name, age)
3. Print for the user to enter their name
4. Read the name using scanf.
5. Print for the user to enter their age.
6. Read the age using scanf.
7. Display the name & age.
8. Stop

Teacher's Signature _____


Start
Declare name, age variables
Print "Enter your name:"
Read name (scanf)
Print "Enter your age:"
Read age (scanf)
Print Name & age
Stop

Date

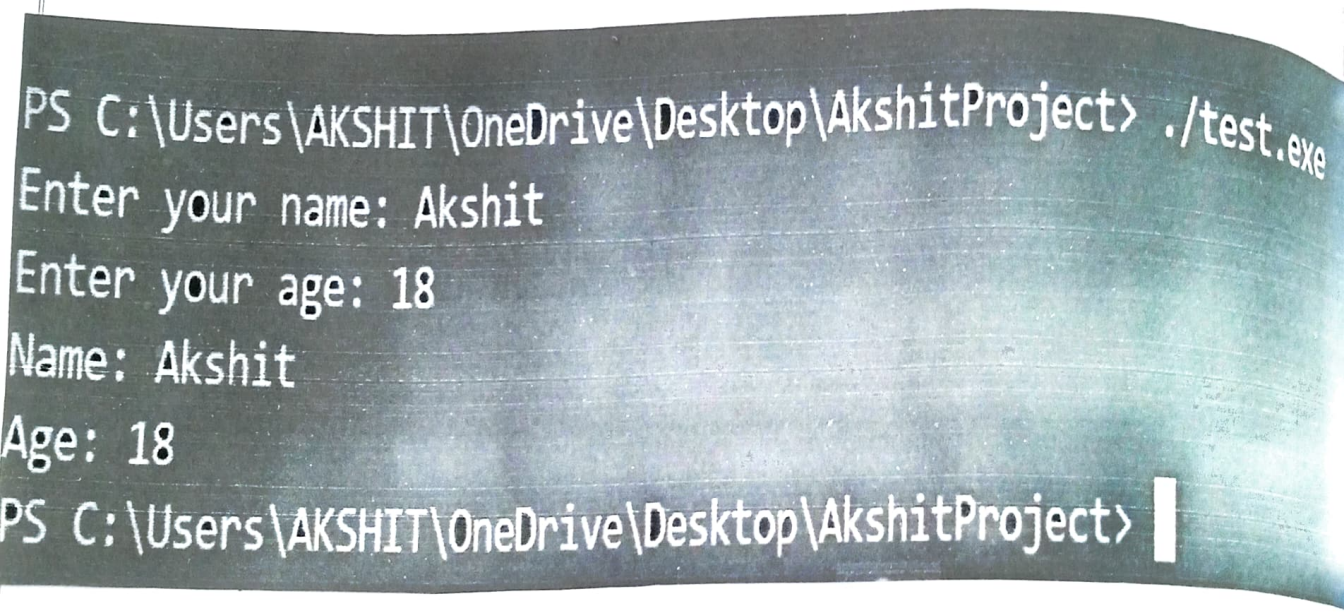
Expt. No. Page No.

Code:

```
#include <stdio.h>

    int main () {
        char name [20]; // Storing the name
        int age; // Storing the age

    // Asking the user to enter their name
        printf ("Enter your name: ");
        scanf ("%s", name); // %s to read a single word

    // Asking the user to enter their age
        printf ("Enter your age: ");
        scanf ("%d", &age); // %d used for decimal integers

    // Displaying the output
            printf ("Name: %s\n", name);
            printf ("Age: %d\n", age);

        return 0;

    }
```

Teacher's Signature

OUTPUT:


PS C:\Users\AKSHIT\OneDrive\Desktop\AkshitProject> ./test.exe
Enter your name: Akshit
Enter your age: 18
Name: Akshit
Age: 18
PS C:\Users\AKSHIT\OneDrive\Desktop\AkshitProject>

Date _____

Expt. No. _____ Page No. _____

4. Write a C program to add two numbers, take number from user.

Algorithm:

1. Start
2. Declare variables (num1, num2, sum)
3. Print "Enter first number:".
4. Read the number using scanf("%d", &num1)
5. Print "Enter second number:".
6. Read the second number using scanf("%d", &num2
7. Calculate sum = num1 + num2
8. Show output 'sum'
9. Stop.

Teacher's Signature _____

Date

Expt. No.

Page No.

Code:

```
#include <stdio.h>

int main() {
    int num1, num2, sum;

// Asking for input
printf("Enter first number: ");
scanf("%d", &num1);  // & used for address of num1

printf("Enter second number: ");
scanf("%d", &num2); // & gives address of num2

// Adding numbers
    sum = num1 + num2;

// Displaying the output
        printf("Sum = %d\n", sum);

    return 0;
}
```

Teacher's Signature

OUTPUT :

```
PS C:\Users\AKSHIT\OneDrive\Desktop\AkshitProject> gcc C:\Users\AKSHIT\OneDrive\Desktop\Akshi
Project\test.c
PS C:\Users\AKSHIT\OneDrive\Desktop\AkshitProject> ./test.exe
Enter first number: 5
Enter second number: 23
Sum = 28
PS C:\Users\AKSHIT\OneDrive\Desktop\AkshitProject>
```