ASSIGNMENT - 1

Instruction: - Read and run the following programs 1 to 6. Write the programs from 7 to 10.

Program 1.
```c
#include <stdio.h>
int main ()
{
        printf ("Programming is fun.\n");
        printf ("And programming in C is even more fun.\n");
        return 0;
}
```

Program 2.
```c
#include <stdio.h>
int main (void)
{
        printf ("Testing...\n..1\n...2\n....3\n");
        return 0;
}
```

Program 3.
```c
#include <stdio.h>
int main ()
{
        int sum;
        sum = 50 + 25;
        printf ("The sum of 50 and 25 is %d\n", sum);
        return 0;
}
```

Program 4.
```c
#include <stdio.h>
int main ()
{
        int value1, value2, sum;
        value1 = 50;
        value2 = 25;
        sum = value1 + value2;
        printf ("The sum of %d and %d is %d\n", value1, value2, sum);
```

```
        return 0;
}
```

Program 5.

```c
#include <stdio.h>
int main (void)
{
        // Declare variables
        int value1, value2, sum;
        // Assign values and calculate their sum
        value1 = 50;
        value2 = 25;
        sum = value1 + value2;
        // Display the result
        printf ("The sum of %i and %i is %i\n", value1, value2,sum);
        return 0;
}
```

Program 6.

```c
#include <stdio.h>
int main ()
{
        printf ("Testing...");
        printf ("....1");
        printf ("...2");
        printf ("..3");
        printf ("\n");
        return 0;
}
```

Program 7. Write a program that subtracts the value 15 from 87 and displays the result, together with an appropriate message, at the terminal.

Program 8. Let x = 32 and y = 8. Write a program that finds x+y , x-y , x*y , x/y and -x and displays the result in different lines, together with an

appropriate message, at the terminal.(You are not allowed to any variable other x and y)

Program 9. Write a program to print a 3x3 matrix (with proper spaces and in matrix form) using a single printf statement. (Choose any values in the matrix)
Eg:- Your program should display something like this-
```
            11 12 13
            14 15 16
            17 18 19
```

Program 10. Given a rectangle of length 5cms and breadth 7cms. Write a program to display area, perimeter and square of the length of the diagonal of the rectangle.