

Assignment Week - 3

CSO 101

8. Write all 32 keywords of C programming language. (5-5)

| | | | |
|----------|--------|----------|------------------------|
| auto | double | int | struct |
| break | else | long | switch |
| case | enum | register | typedef |
| char | extern | return | union union |
| continue | for | signed | void |
| do | if | static | while |
| default | goto | sizeof | volatile |
| const. | float | short | unsigned. |

9. Write all 12 backslash character constants.

| | |
|--------|------------------------|
| 1) \a | alarm |
| 2) \b | backspace |
| 3) \f | formfeed |
| 4) \n | new line |
| 5) \r | carriage return |
| 6) \t | horizontal tab |
| 7) \v | vertical tab. |
| 8) \? | literal question mark. |
| 9) \ | backslash |
| 10) \' | single quote |
| 11) \" | double quote |
| 12) \0 | null character. |

Q. Write range and size of other extensions. (64 bit compiler)
(cs-8)

| data type | Range | Size (in bits) |
|-------------|-------------------------------------|------------------|
| long int | -2147483648 to 2147483647 | 32 64 |
| long double | $3.4e-4932$ to $3.4e+4932$ | 1280 |
| complex | $-9.22e+10^{18}$ to $9.22e+10^{18}$ | 128 |
| bool | false / true | 8 |

Screenshots of Programs

1. simple_calulation_of_two_number.c

```
→ Assignment week 3 gcc simple_calulation_of_two_number.c
→ Assignment week 3 ./a.out
Enter a = 5
Enter b = 8
a+b is 13.000000
a-b is -3.000000
a*b is 40.000000
a/b is 0.625000
```

2. fahrenheit_to_celcius.c

```
→ Assignment week 3 gcc fahrenheit_to_celcius.c
→ Assignment week 3 ./a.out
Enter temperatue(in fahrenheit) = -40
Tempertaure(in celcius) = -40.00
```

3. multiplication_table.c

```
→ Assignment week 3 gcc multiplication_table.c
→ Assignment week 3 ./a.out
Enter number = 9
Multiplication table of 9
9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81
9 x 10 = 90
```

Submitted by:-

Name -Shivam Gupta

Roll no. – 21095106

Dept: Electronics Engineering (B.Tech)

Email: shivam.gupta.ece21@itbhu.ac.in