

Govt. of National Capital Territory of Delhi
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Introduction to Programming (ETCS-108)

Assignment 7

Date: ~~19~~ 19/02/16

Last Date for submission: 25/02/16

Q. 1. Find out the error:

```
i. main() {
    int x = 10;
    if (x >= 2)
        printf("%d", x); }

ii. main() {
    int i = 2, j = 5;
    if ( i == 2 && j == 5)
        printf("satisfied at last"); }
```

Q. 2. Write a program to input a letter of alphabet in uppercase & display both octal & hexadecimal code for each character.

Q. 3. A C program contains the following declaration and initial assignments:

```
int i = 8, j = 5, k;
float x = 0.005, y = -0.01, z;
char a, b, c = 'c', d = 'd';
```

Determine the value of each of the following assignment expression. Use the values given for variables.

```
i.    k = c;
ii.   i %= j;
iii.  k = (j == 5)
iv.   (x > y) && (i > 0) || (j < 5);
v.    !(c==99)
```

Q. 4. What are the limitations of conditional operator?

Q. 5. What are unary operators? Also give their precedence level.

Q. 6. What is a conditional operator? Explain it with an example. Rewrite the following code using conditional statement:

```
main() {
    int high, low, p;
    scanf("\n%d %d", &high, &p);

    if (p > high) high = p;
    else low = p; }
```

Q. 7. What is the output of the following program?

```
void main() {
    int a = 4, b = 5, c;
    c = a < b + 10;
    printf("%d", c); }
```

Q. 8. What is the output of the following program?

```
void main() {
    int a = 10, b = 6, c;
    c = a++ + b;
    printf("%d", c);
    c = ++a + b;
    printf("%d", c); }
```

Q. 9. What is the output of the following program?

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```
void main() {  
    int a = 10, b = 6, c;  
    c = a++ + b + a++;  
    printf("%d", c);  
    c = ++a + b + ++a;  
    printf("%d", c);  
}
```

Q. 10. With the help of suitable example, explain the difference between '=' and '==' operator in C.

Q. 11. What is the output of the following program?

```
void main () { int a = 5;  
    printf("%d %d %d", a++, a++, a++); }
```

Q. 12. Explain various operators used in C.

Q. 13. Differentiate between prefixing and suffixing ++ to a variable.

Q. 14. Write a program to find the largest of three numbers using conditional operator.

Q. 15. What will be the output of the following codes? (also explain your answer):

```
i.    main() {  
    int k = -1, j = 2;  
    switch(k %=j * k) {  
        case -1: printf("%d", k %= 5);  
        case 2: printf("%d", j * k);  
        default: printf("%d", j /= 3);  
        case 3: break;  
        case 4: printf("hello world"); } }
```

```
ii.   main() {  
    int c = 0, d = 5, e = 10, a;  
    a = c < 1 ? d > 1 || e > 1 ? 100 : 200 : 300;  
    if (a)  
        printf("\n the value of a is : %d", a);  
    printf("\n world"); }
```

```
iii.  main() {  
    if ('A' < 'a')  
        printf("the value of \'a\' is greater");  
    else  
        printf("the value of \'A\' is greater"); }
```



(Mr. Aditya Tandon)
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