**Question 1**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10, b = 100;**

**float c = 10.5, d = 100.5;**

**printf("++a = %d \n", ++a);**

**printf("--b = %d \n", --b);**

**printf("++c = %f \n", ++c);**

**printf("--d = %f \n", --d);**

**return 0;**

**}**

**OUTPUT**

++a = 11

--b = 99

++c = 11.500000

--d = 99.500000

**Question 2**

**#include <stdio.h>**

**int main()**

**{**

**int a = 5, b = 5, c = 10;**

**printf("%d == %d is %d \n", a, b, a == b);**

**printf("%d == %d is %d \n", a, c, a == c);**

**printf("%d > %d is %d \n", a, b, a > b);**

**printf("%d > %d is %d \n", a, c, a > c);**

**printf("%d < %d is %d \n", a, b, a < b);**

**printf("%d < %d is %d \n", a, c, a < c);**

**printf("%d != %d is %d \n", a, b, a != b);**

**printf("%d != %d is %d \n", a, c, a != c);**

**printf("%d >= %d is %d \n", a, b, a >= b);**

**printf("%d >= %d is %d \n", a, c, a >= c);**

**printf("%d <= %d is %d \n", a, b, a <= b);**

**printf("%d <= %d is %d \n", a, c, a <= c);**

**return 0;**

**}**

**OUTPUT**

**5 == 5 is 1**

**5 == 10 is 0**

**5 > 5 is 0**

**5 > 10 is 0**

**5 < 5 is 0**

**5 < 10 is 1**

**5 != 5 is 0**

**5 != 10 is 1**

**5 >= 5 is 1**

**5 >= 10 is 0**

**5 <= 5 is 1**

**5 <= 10 is 1**

**Question 3**

#include <stdio.h>

int main()

{

int a = 5, b = 5, c = 10, result;

result = (a == b) && (c > b);

printf("(a == b) && (c > b) is %d \n", result);

result = (a == b) && (c < b);

printf("(a == b) && (c < b) is %d \n", result);

result = (a == b) || (c < b);

printf("(a == b) || (c < b) is %d \n", result);

result = (a != b) || (c < b);

printf("(a != b) || (c < b) is %d \n", result);

result = !(a != b);

printf("!(a != b) is %d \n", result);

result = !(a == b);

printf("!(a == b) is %d \n", result);

return 0;

}

**OUTPUT**

**(a == b) && (c > b) is 1**

**(a == b) && (c < b) is 0**

**(a == b) || (c < b) is 1**

**(a != b) || (c < b) is 0**

**!(a != b) is 1**

**!(a == b) is 0**

**Question 4**

#include <stdio.h>

int main()

{

printf(" int is %ld bytes \n", sizeof(int));

printf(" float is %ld bytes \n", sizeof(float));

printf(" double is %ld bytes \n", sizeof(double));

printf(" char is %ld bytes \n", sizeof(char));

return 0;

}

**OUTPUT**

int is 4 bytes

float is 4 bytes

double is 8 bytes

char is 1 bytes

**Question 5**

**#include<stdio.h>**

**int main()**

**{**

**//Taking a variable num=22 and 22 in decimal is equivalent to 010110 in binary**

**char num=22;**

**//Left-Shift the variable by 1 i.e 010110 after left-shift becomes 101100**

**printf("num<<1 = %d\n", num<<1);**

**//right shift**

**printf("num>>1 = %d\n", num>>1);**

**return 0;**

**}**

**OUTPUT**

**num<<1 = 44**

**num>>1 = 11**

**Question 6**

**#include <stdio.h>**

**int main()**

**{**

**int n1 = 6, n2 = 8, max;**

**max = (n1 > n2) ? n1 : n2;**

**printf("Largest number between %d and %d is %d. ",n1, n2, max);**

**return 0;**

**}**

**OUTPUT**

**Largest number between 6 and 8 is 8.**

**LARGEST OF 3**

**#include <stdio.h>**

**int main()**

**{**

**int n1 = 5, n2 = 10, n3 = 15, max;**

**max = (n1 > n2) ? (n1 > n3 ? n1 : n3) : (n2 > n3 ? n2 : n3);**

**printf("Largest number among %d, %d and %d is %d.",n1, n2, n3, max);**

**return 0;**

**}**

**OUTPUT**

**Largest number among 5, 10 and 15 is 15.**