

Unit-1 Practice Questions

1. Write a C program to find odd or even number using bitwise operators.
2. List the different types of Errors with Examples.
3. Write a C program to calculate sum of first and last digit of a given number.
4. Write a C program to accept a four-digit number from user. Count zero, odd and even digits in the entered number. Sample Output: Enter a four-digit number: 1006 Odd digit: 1 Even digit: 1 Zero's: 2
5. Write a C program to generate following pattern for n lines: Here, n=4 i.e 4 lines



6. Problem statement: Write a C program to count number of bits set to 1 in an Integer. Hint: We can use bitwise operator here to solve the problem
7. Write a C program to check whether a given number is palindrome or not.
8. C program to print the series from 1 to 10 and skip numbers 6 and 8.
9. Describe the structure of the C program with a simple example.
10. C program to find number of days in a month using switch case
11. Write a program for the following output.

Enter the number range: 5

```
1*1=1 1*2=2 1*3=3 1*4=4 1*5=5 1*6=6 1*7=7 1*8=8 1*9=9 1*10=10 2*1=2
2*2=4 2*3=6 2*4=8 2*5=10 2*6=12 2*7=14 2*8=16 2*9=18 2*10=20 3*1=3
3*2=6 3*3=9 3*4=12 3*5=15 3*6=18 3*7=21 3*8=24 3*9=27 3*10=30 4*1=4
4*2=8 4*3=12 4*4=16 4*5=20 4*6=24 4*7=28 4*8=32 4*9=36 4*10=40
5*1=5 5*2=10 5*3=15 5*4=20 5*5=25 5*6=30 5*7=35 5*8=40 5*9=45
5*10=50
```

12. Write a C program to generate following pattern for n lines.

```

A
B B
C C C
D D D D
E E E E E

```

13. Write a C program to accept 'n' different numbers and display sum of all positive & negative numbers.

14. Write a program, which accepts a number and displays each digit in words. Example: 6702, Output = Six-Seven-Zero-Two.

15. Mention the output for the following statements.

```
printf("%c",101);
```

```
printf("%d", 7++);
```

16. A variable name can start with a digit. (TRUE/FALSE).

17. Mention the output for the following statements.

```
printf("%d",sizeof(short int));
```

```
int z;
```

```
printf("%d", z=6 | 4);
```

18. printf is a keyword; TRUE or FALSE.

19. Mention the outputs of below code snippets separately.

i) `printf("%d",++3);`

ii) `printf("%d", -1?0:1);`

iii) `int a; printf("%d",a=0 && 2==2);`

iv) `int a; printf("%d",a=10 | 2==2);`

20. Write a C program to accept 'n' different numbers and display sum of all positive & negative numbers.

21. Write a C Program to find and display the number of characters and words in a user input. Program must take one line of input from the user.

22. Which is Valid C expression?

23. Which of the following cannot be a variable name in C?

24. What is the size of an int data type?

25. Low level language is ?

26. What will be the output of the following code?

```
printf("Maha\t Bharatha\ n");
```

27. What will happen if the following C code is executed?

```
#include <stdio.h>

int main()
{
    int main = 3;
    printf("%d", main);
    return 0;
}
```

28. What is the Output of the following Code?

```
#include <stdio.h>

int main()
{
    int y = 1000;
    int y = 34;
    printf("Hello World! %d\n", y);
    return 0;
}
```

29. Which is correct with respect to the size of the data types?

30. What is the output of the following code?

```
#include <stdio.h>

int main()
{
    float y = 'c';
    printf("%f", y);
}
```

```
    return 0;
}
```

31.The first argument to printf is a _____.

32.What is the output of the following code

```
#include<stdio.h>

int main()
{
char ch;
int i;
ch='G';
i=ch-'A';
printf("%d",i);
return 0;
}
```

33.The Size of short integer and long integer can be verified using the sizeof() operator.

34.What is the output of the following code

```
#include<stdio.h>

int main()
{
int x;
x=4;
int y;
y=x++;
printf("%d %d",x,y);
}
```

35.What is the output of the following code

```
#include<stdio.h>

int main()
```

```
{
int x;
int y;
int z;
x=3;
y=4;
z = ++x * y++;
printf("%d %d %d",x,y,z);
return 0;
}
```

36.How many times i value is checked in the following C code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    while (i < 3)
        i++;
    printf("In while loop\n");
}
```

37.What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    do
    {
        printf("Hello");
    } while (i != 0);
}
```

```
}
```

38. What will be the output of the following C code?

```
#include <stdio.h>

int main()
{
    int k = 0;
    for (k < 3; k++)
        printf("Hello");
}
```

39. What is the output of the following code?

```
#include<stdio.h>

int main()
{
    int a=10;
    printf("%d",a<<2);
}
```

40. What is the output of the following?

```
#include<stdio.h>

int main()
{
    int i = 0;
    switch(i)
    {
        case 1:
            printf("Case1");
            break;
        case 1*2+2:
            printf("Case2");
            break;
    }
```

```
    }  
return 0;  
}
```

41. What is the output of the following?

```
#include<stdio.h>  
int main()  
{  
    int n;  
    for (n = 9; n!=0; n--)  
        printf("n = %d", n--);  
    return 0;  
}
```

42. What is the output of the following code

```
#include<stdio.h>  
int main()  
{  
    if((5 && 5) == 5)  
        printf("Correct");  
    else  
        printf("Incorrect");  
    return 0;  
}
```

43. What is the output of the following

```
#include<stdio.h>  
int main()  
{  
    int k, num = 100;  
    k = (num > 50 ? (num <= 10 ? 100 : 200): 500);  
    printf("%d\n", num);  
}
```

```
    return 0;
}
```

44. In which stage the following code

```
#include<stdio.h>
```

gets replaced by the contents of the file stdio.h

After compilation which type of file is created?

45.What is the value of n in the following code?

```
int n=printf("welcome to pes %s","university");
printf("value of n %d",n);
```

46.Computer program that takes one or more object files generated by a compiler and combines them into one executable program.

47.Deviation from the rules of the Language or violating the rules of the language results in_____ Error

48.What is the ouput of the below code?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
int a = 5, b = -7, c = 0, d;
```

```
d = ++a&&++b||++c;
```

```
printf("%d %d %d %d", a, b, c, d);
```

```
return 0;
```

```
}
```

A long double can be used if range of a double is not enough to accommodate a real number.

49.What is the Output of the Following Code?

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
int k=1;
```

```
printf("%d == 1 is" " %s\n", k, k==1?"TRUE":"FALSE");
```



```
    return 0;
}
```

50. _____ Errors that occur during the execution of a C program and generally occur due to some illegal operation performed in the program.

51. Which of the following function is used for taking a single char input from user? & represents what type of operator?

52. What is the output of the following program?

```
#include<stdio.h>

int main()
{
    int n=5;
    while(n)
    {
        --n;
        printf("%d ",n);
    }
}
```

53. Which of the following are unary operators in C?

1. sizeof
2. &&
3. ~
4. !

54. How can we use the getchar() function to read multicharacter strings?

55. What is the output of C program if input is 'S'?

```
int main()
{
    char ch='A';
    ch=getchar();
    putchar(ch);
    return 0;
}
```

```
}
```

56. What is the output of c program with %* operator.?

```
int main()
{
char ch;
scanf("%*c %c",&ch);
putchar(ch); return 0;
} //input=G H
```

57. How many times the suite of the loop is executed when the input is chocolate with enter key? Will the execution of code get terminated after this?

```
#include<stdio.h>
int main()
{
char d;
int i = 0;
while ((d=getc(stdin)) != '\t')
{
printf("hello\n");
}
}
```

58. What is the return value of putchar()?

59. getchar() reads the next input character each time it is called, and an EOF when it encounters end of file

60. putchar(c) function/macro always outputs character c to the standard output