# MCQs

1 . #include<stdio.h>
```
int main() {
   int a=2;
   int x=0;
   switch(a){
      case 1:
         x+=5;
      case 2:
         x+=2;
      case 3:
         x+=3;
   }
   printf("%d",x);
}
```

a.) 2  b.)3  c.)5  d.)0

Answer= C
EXPLANATION: If a switch case is executed and not breaked ,then all case statements following it are also executed.

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2. What will be the next element in the sequence:-
1 1 2 5 14

Answer =42
EXPLANATION: This is standard sequence of Catalan Number.
The **Catalan numbers** are a sequence of positive integers that appear in many counting problems in combinatorics. They count certain types of lattice paths, permutations, binary trees, and many other combinatorial objects.
Nth Term can be found by using this Formula 2nCn * (1/n+1).

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

```
#include<stdio.h>
int main() {
   int a=12,b=10;
   a = a+b;
   printf("%d %d",a=a-b,b=a-b);
}
```

a.) 12 12  b.)10 10  c.)12 10  d.)10 12

Answer= D
EXPLANATION:  In C this type of cases are executed from right to left ,so first b is assigned a-b (22-10) ,then b is printed ,then a is assigned a-b (22-12) and a is printed.

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

```
#include<stdio.h>
int main() {
   int a=100;
   printf("%c",a);
}
```

a.) 10  b.)100  c.)c  d.)None of the above

Answer= D
EXPLANATION: Calling %c on a integer in C will print the ASCII charcter it represents. The ASCII values of a,b,c,d .. are 97,98,99,100.. respectively.

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

```
#include<stdio.h>
int i;
int main() {
   for(;1;);
   printf("%d",i);
}
```

a.)0  b.)Runtime Error  c.)Compilation Error  d.)Infinite Loop

Answer= D
EXPLANATION:  The given for loop doesn't have any stoping condition ,it has just 1 which is true forever, so this loop will go on for infinite time without doing any operation as it is followed by a ";".

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

```
#include<stdio.h>
int a;
int main() {
   if(a)
      a+=5;
```

```
      a+=2;
   printf("%d",a);
}
```

a.)5 b.)2 c.)0 d.)7

Answer= B

EXPLANATION: Local varialbes are initialised by random values while Global Variables are assigned 0 when declared. Here 'a' is a global variable.

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7.What is the Output Of this Code?

```
#include<stdio.h>

int main() {
   printf("%d",printf("Codeshows"));
}
```

Answer= Codeshows9

EXPLANATION: printf return the length of string.

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8. Can You Solve it??

LOVE = 55566688833
HATE=442833
HAPPY=44277999

Then What is Encrypted Code for SAD??

Answer : 777723

EXPLANATION: Decryption for each letter is the No. of time you have to press the suitable key in Nokia Mobile Phone.

Ex. For 'S' we have to press 4 times 7 => 7777

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9. Give answer as—
A. if only conclusion I is true.
B. if only conclusion II is true.
C. if either conclusion I or conclusion II is true.
D. if neither conclusion I nor conclusion II is true
E. if both conclusions I and II are true.

**Statements:**
Some C are T
Some T are R
All R are M
**Conclusions:**
I. Some M are T
II. Some C are M

Answer : (A)

EXPLANATION: Logical Reasoning

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10. In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C ?

Answer : Daughter

EXPLANATION: Logical Reasoning

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11. Which of the following cannot be checked in a switch-case statement?

Answer : Float

EXPLANATION: The expression used in switch must be integral type ( int, char and enum).

Any other type of expression is not allowed.

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12. HCF of two numbers is 11 and their LCM is 385. If the numbers do not differ by more than 50, what is the sum of the two numbers ?

Answer : 132

EXPLANATION: First No. * Second No. =LCM * HCF.

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13. A clock reads 7:30. If the minute hand points East, in what direction will the hour hand point?

Answer : South-East

EXPLANATION : Logical Reasoning

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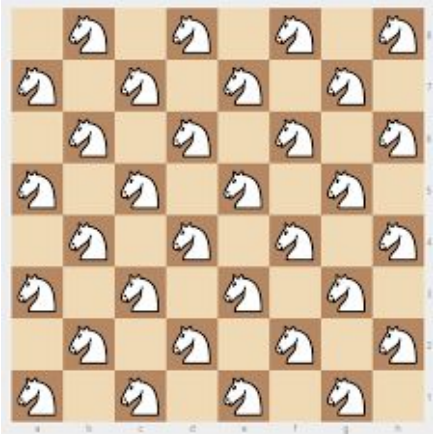
14. What is the maximum number of knights that can be placed on a chessboard so no two attacks each other?

Answer 32.

EXPLANATION : Put all the knights on either black or white.



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15. Pick **Odd One Out.**

A. Oreo

B. Lollipop

C. Melody

D. Kitkat

Answer: C

EXPLANATION :All other are the Android's  name.