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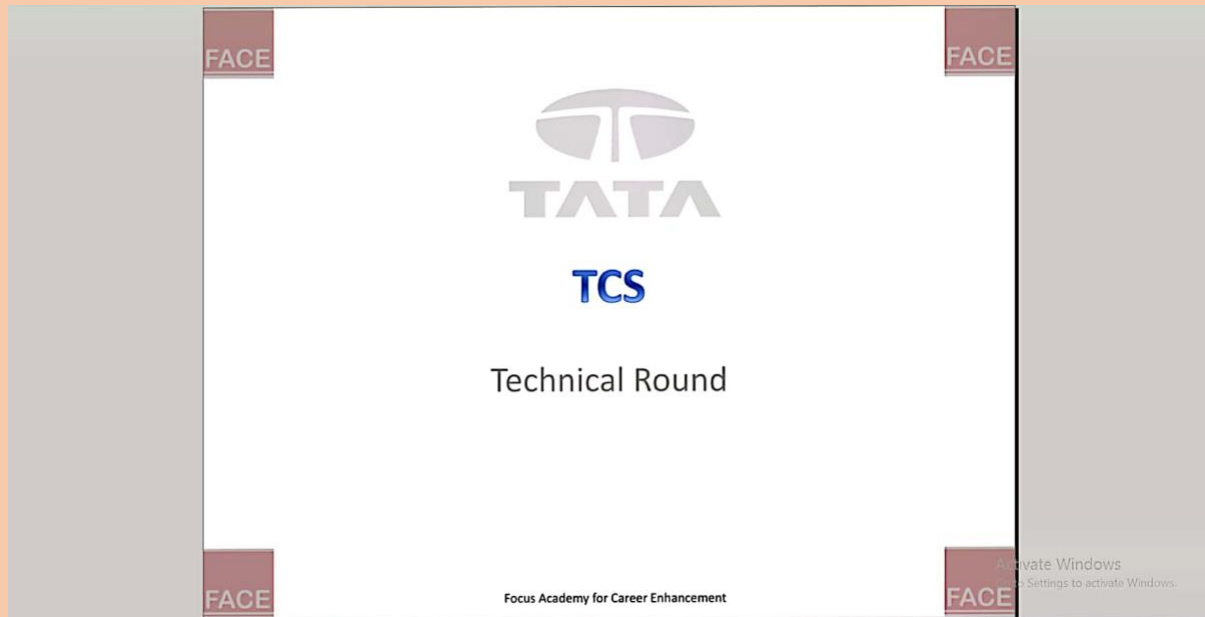
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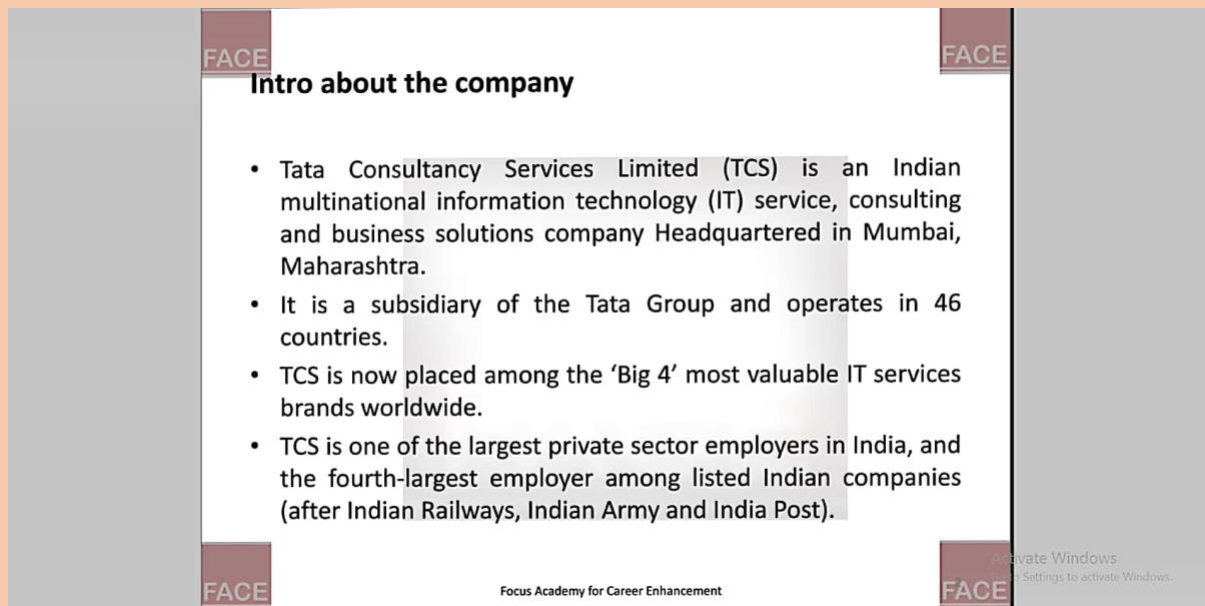
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The slide is titled "TCS Technical round" and lists the components of technical questions. It includes a list of bullet points: "There are two components of technical questions. MCQ's and Programming.", "MCQ (or) Fill in the blanks" with sub-points "20 Minutes" and "10 Questions", and "Coding round" with sub-points "20 Minutes" and "One C program". The slide has a watermark "FACE" in the center and "Focus Academy for Career Enhancement" at the bottom. There are also "FACE" logos in the corners and a Windows activation watermark on the right side.

TCS Technical round

- There are two components of technical questions. MCQ's and Programming.
- MCQ (or) Fill in the blanks
 - 20 Minutes
 - 10 Questions
- Coding round
 - 20 Minutes
 - One C program

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The slide is titled "PROGRAMS" and describes "Program 1: Factorial program in c using command line arguments." It defines a factorial as the product of all positive integers less than or equal to n, and gives an example: "The value of 5! is 5*4*3*2*1 = 120". The slide has a watermark "FACE" in the center and "Focus Academy for Career Enhancement" at the bottom. There are also "FACE" logos in the corners and a Windows activation watermark on the right side.

PROGRAMS

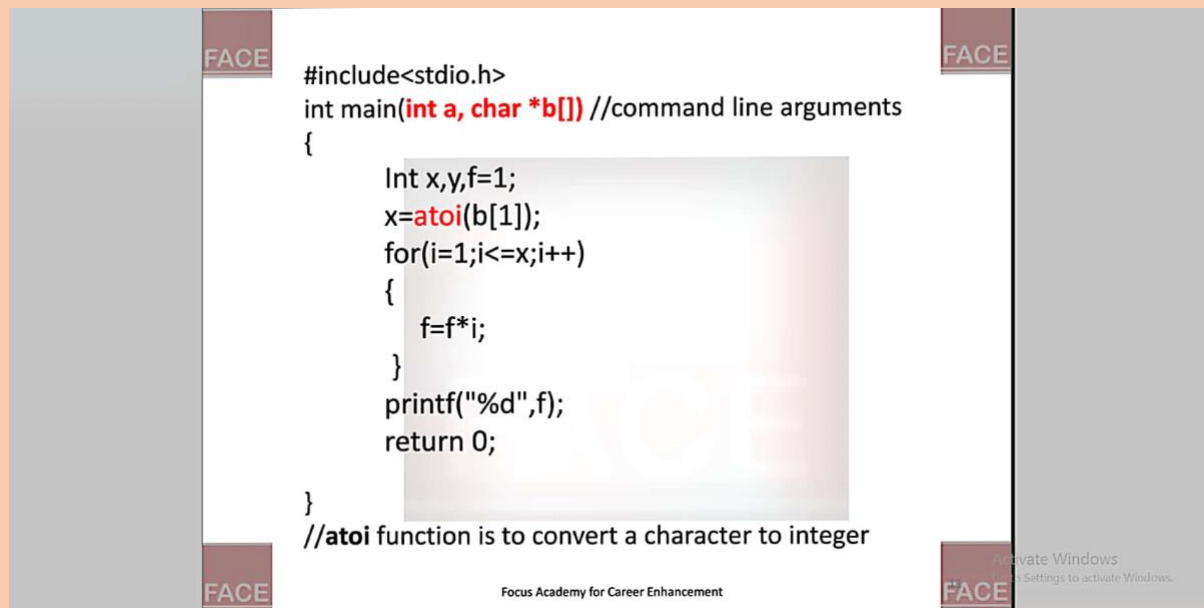
Program 1:
Factorial program in c using command line arguments.

Factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n.

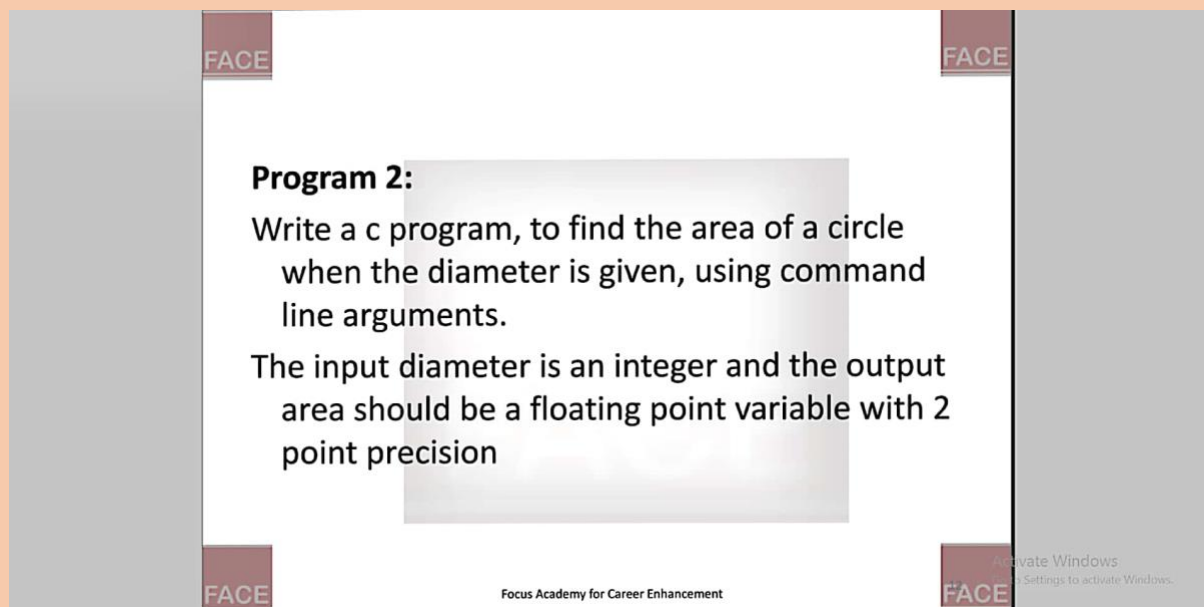
For example, The value of 5! is $5*4*3*2*1 = 120$

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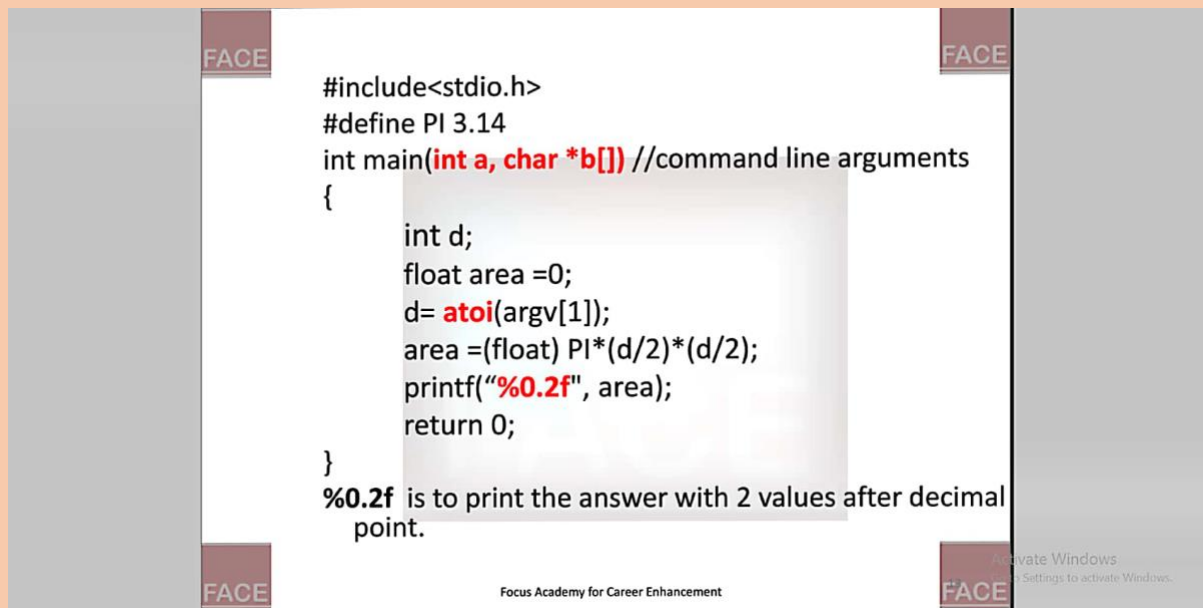


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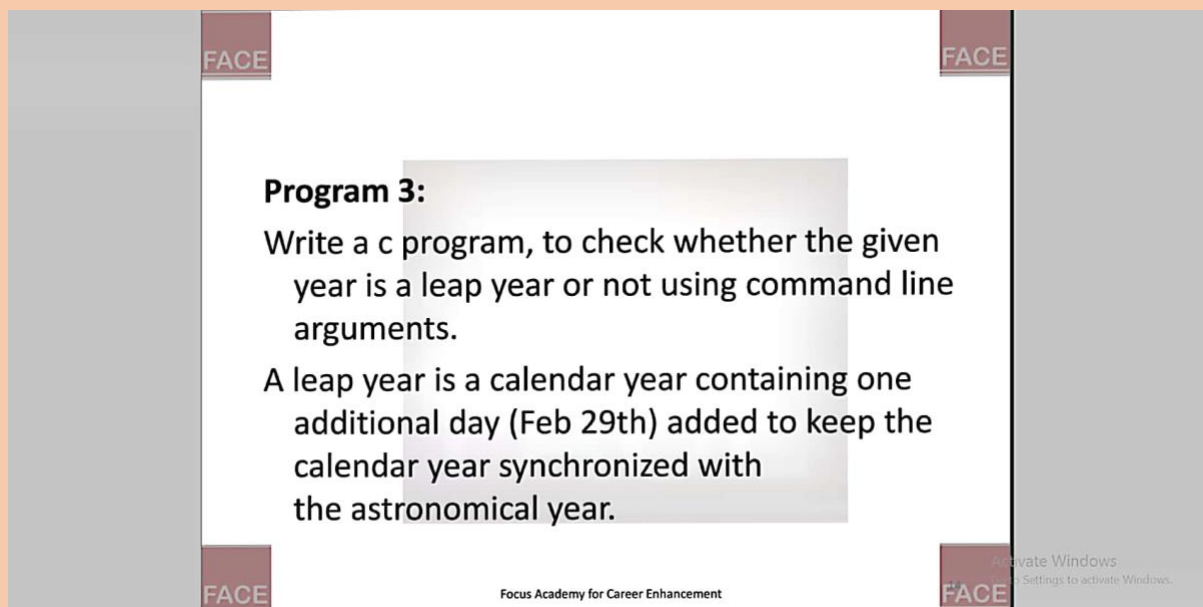


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```
#include<stdio.h>
int main(int a, char*b[])
{
    Int year;
    year=atoi(b[1]);
    if(year%100==0){
        if(year%400==0)
            { printf("LEAP YEAR"); }
        else{ printf("NOT LEAP YEAR"); }
    }
    else if(year%4==0)
    { printf("LEAP YEAR"); }
    else{ printf("NOT LEAP YEAR"); }
    return 0;
}
```

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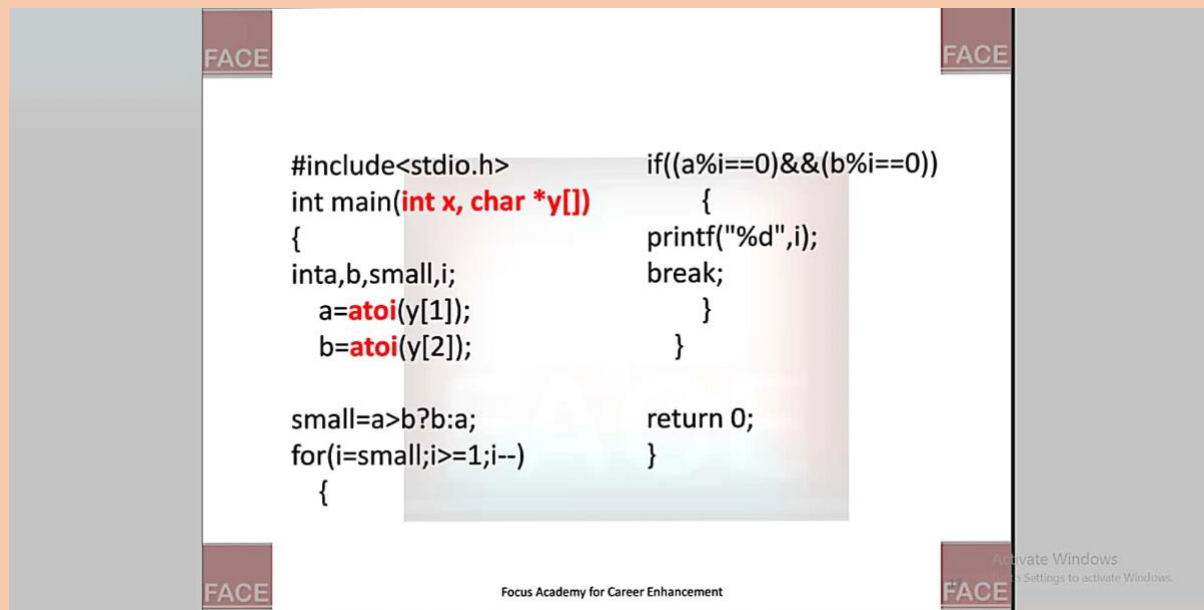
Program 4:
Write a c program, to find the GCD of the given 2 numbers, using command line arguments.
The input is 2 integer and the output GCD also should be an integer value.

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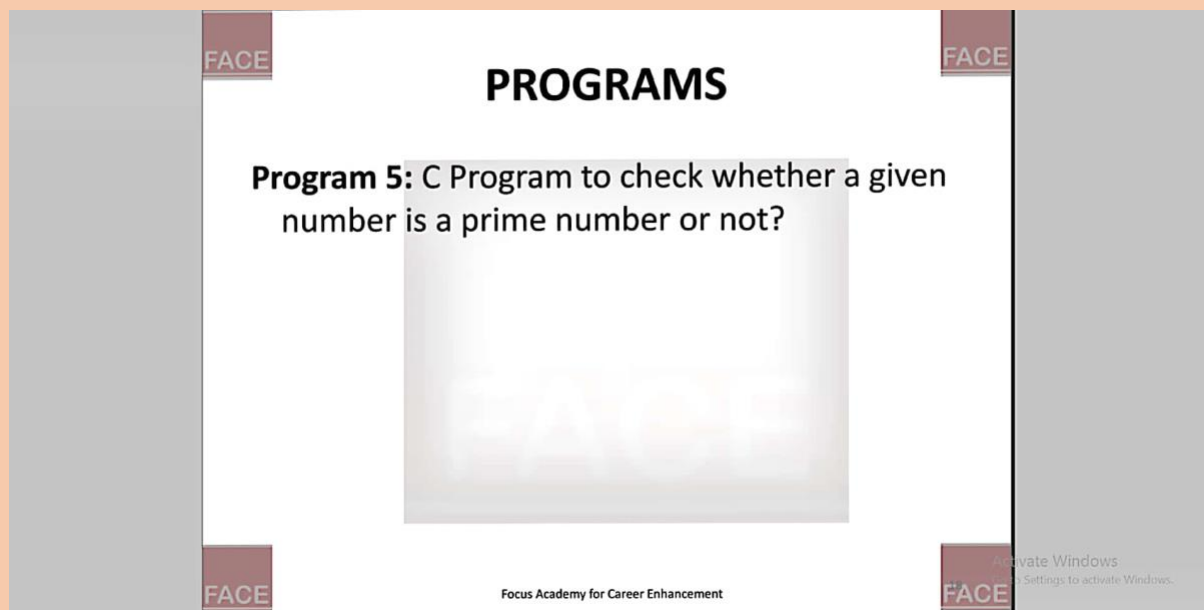
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Write a C program which will convert a given decimal integer number N to its binary equivalent. The given number N, a positive integer, will be passed to the program using the first command line parameter. Print the equivalent binary number to stdout. Other than the binary number, no other extra information should be printed to stdout

Example:
Given input "19", here N=19, expected out 10011

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Decimal to binary

```
#include<stdio.h>
#include<stdlib.h>
int main(int a, char* b[])
{
    int n, cnt,i;
    int b[32];
    N=atoi(b[i]);
    cnt=0;
    while(n!=0)
    {
        b[cnt]=n%2;
        n=n/2;
        cnt++;
    }
    for(i=(cnt-1);i>=0;i--)
        Printf("%d",b[i]);
    return 0;
}
```

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- Write a c program that will find the sum of all prime numbers in a given range. The range will be specified as command line parameters. The first command line parameter, N1 which is a positive integer, will contain the lower bound of the range. The second command line parameter N2, which is also a positive integer will contain the upper bound of the range. The program should consider all the prime numbers within the range, excluding the upper bound and lower bound. Print the output in integer format to stdout. Other than the integer number, no other extra information should be printed to stdout.

Example

Given inputs "7" and "24" here N1= 7 and N2=34, expected output as 83

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- Write a C program which will check whether a given year YYYY is a leap year. A leap year is exactly divisible by 4 except for century years(years ending with 00). The century year is a leap year only if its perfectly divisible by 400. The given year YYYY will be passed to the program using the first command line parameter. If the given year YYYY is a leap year then print YES to stdout. If the given year is not a leap year, then print NO to stdout. Note that the words YES and NO have to be printed in UPPER CASE(capital letters) Other than the word YES or No,no other extra information should be printed to stdout.

Example:

- Given input "1900", here YYYY is 1900, expected output is No
- Write your code here
- #include<stdio.h>

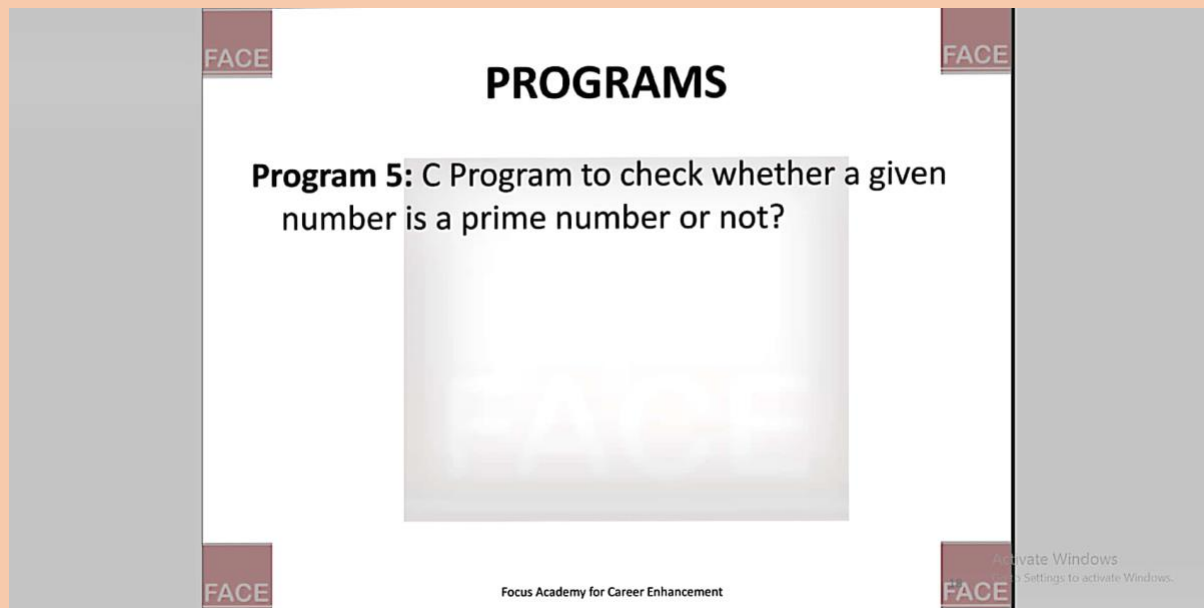
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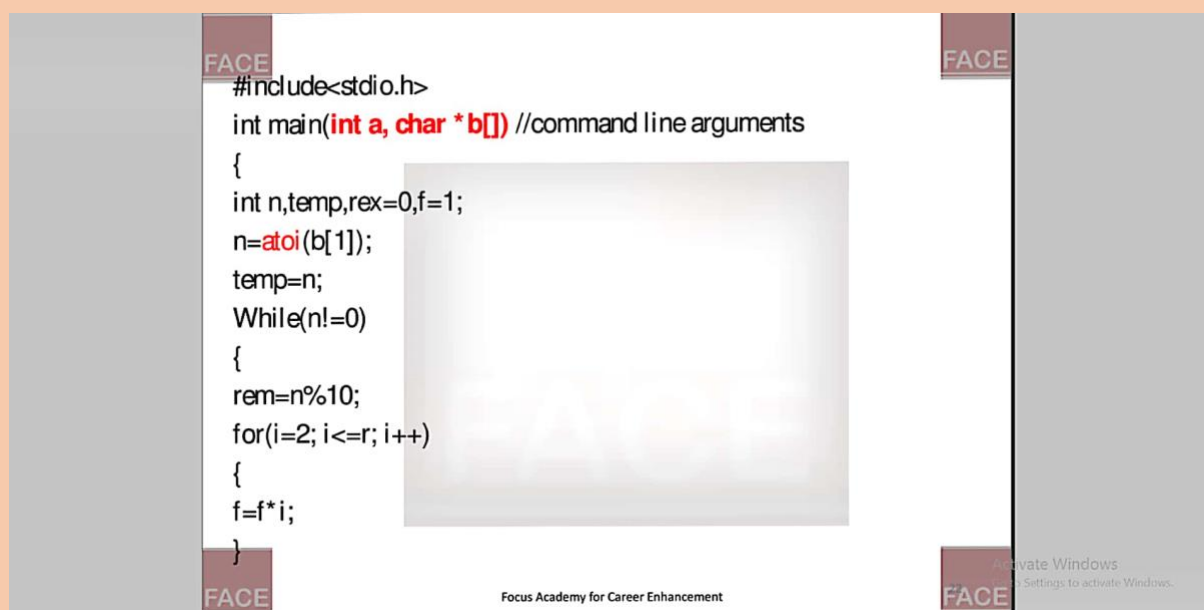
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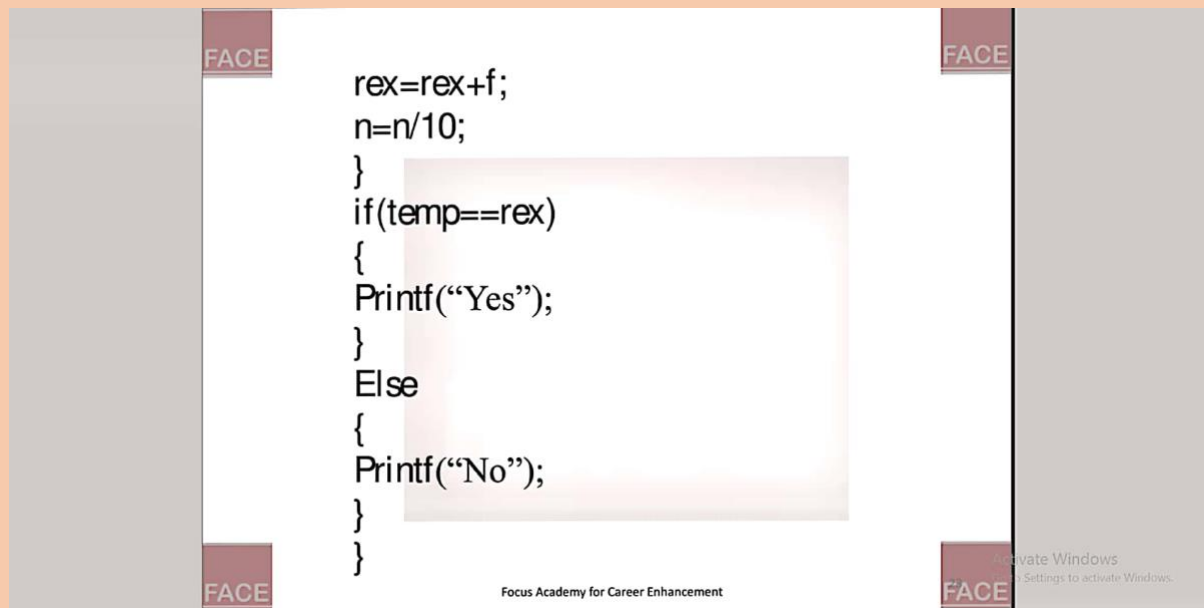


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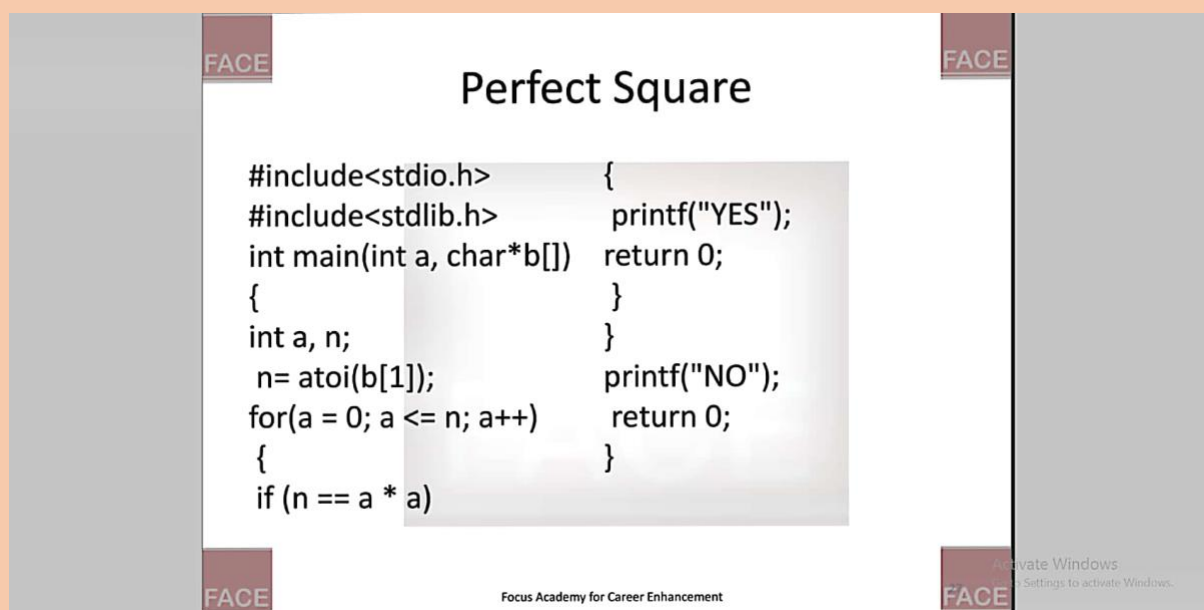


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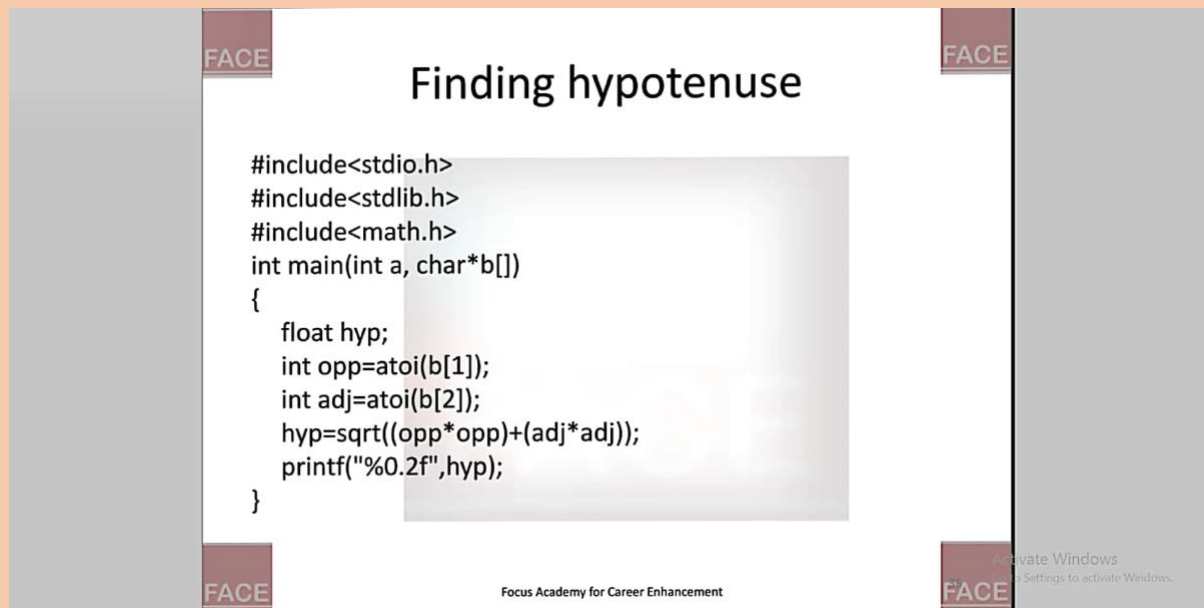


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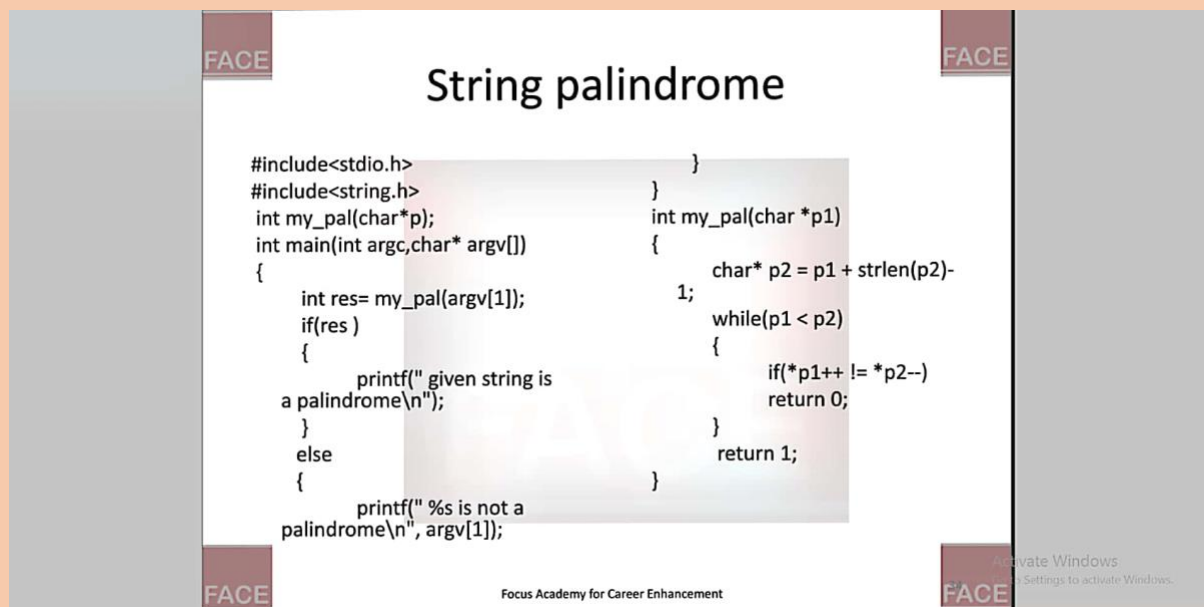


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Reverse a given number

```
#include<stdio.h>
#include<stdlib.h>
int main(int a, char *b[])
{
    int n,r,s=0;
    int m=n;
    n=atoi(b[1]);
    while(n!=0)
    {
        r=n%10;
        s=s*10+r;
        n=n/10;
    }
    printf("%d",s);
}
```

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Fibonacci Series up to n number of terms

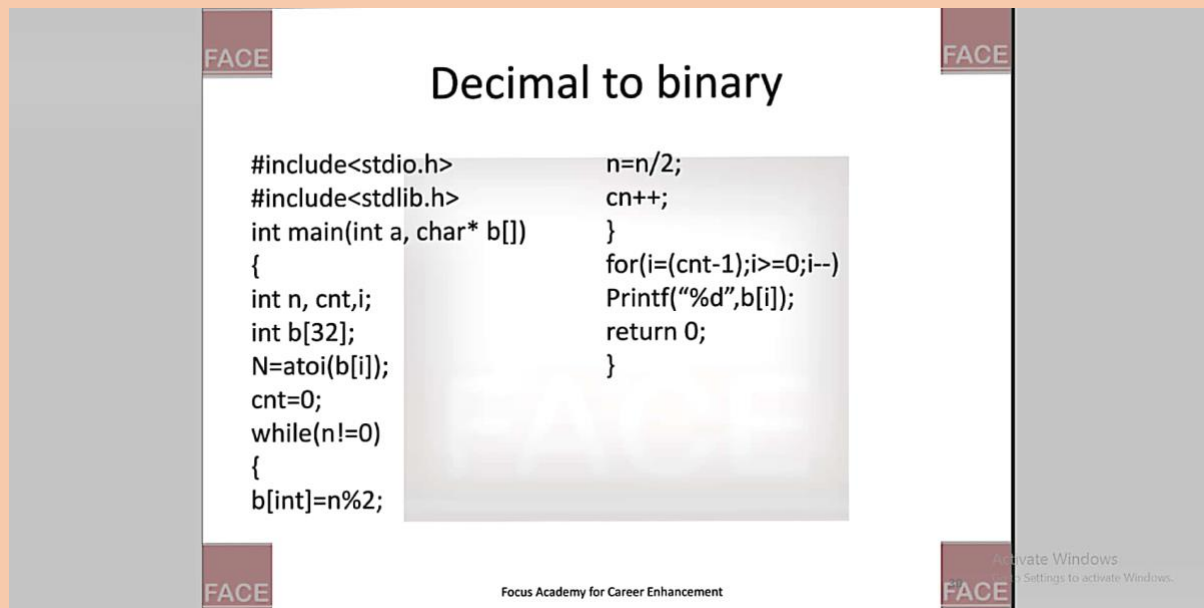
```
#include<stdio.h>
#include<stdlib.h>
int main(int a, char* b[])
{
    int i, n, t1 = 0, t2 = 1, nextTerm;
    n=atoi(b[1]);
    for (i = 1; i <= n; ++i)
    {
        printf("%d, ", t1);
        nextTerm = t1 + t2;
        t1 = t2;
        t2 = nextTerm;
    }
    return 0;
}
```

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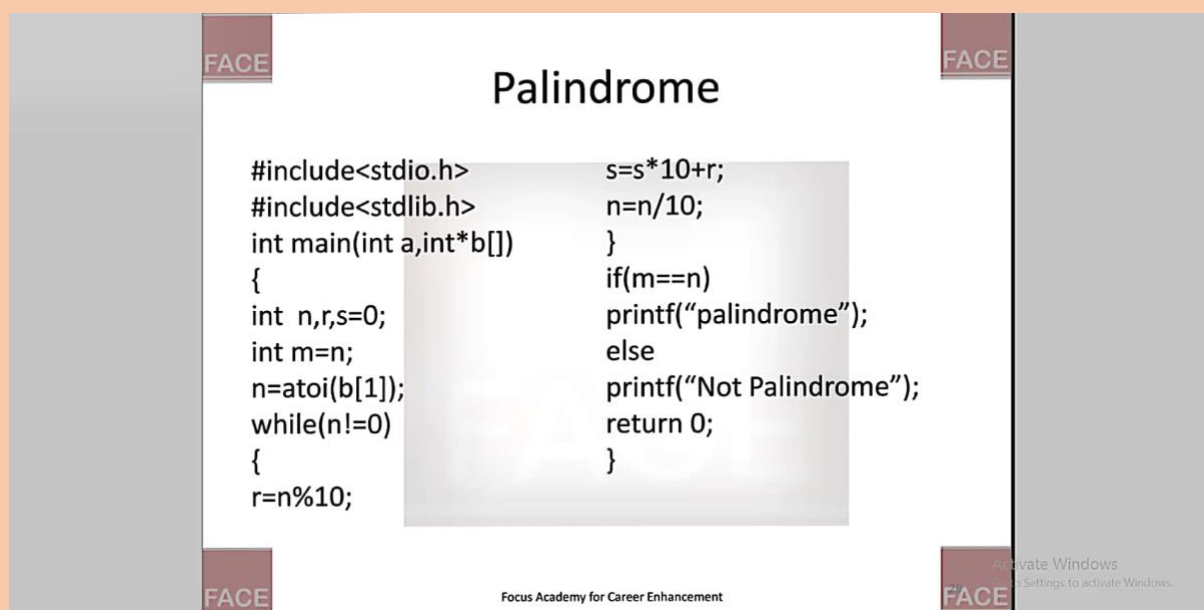
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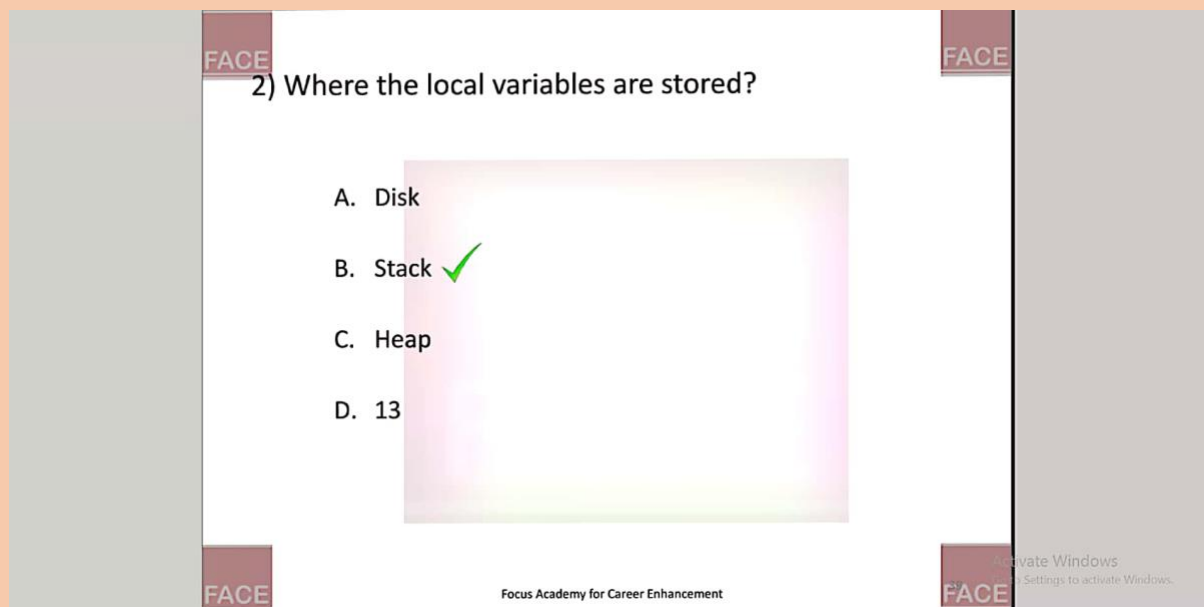
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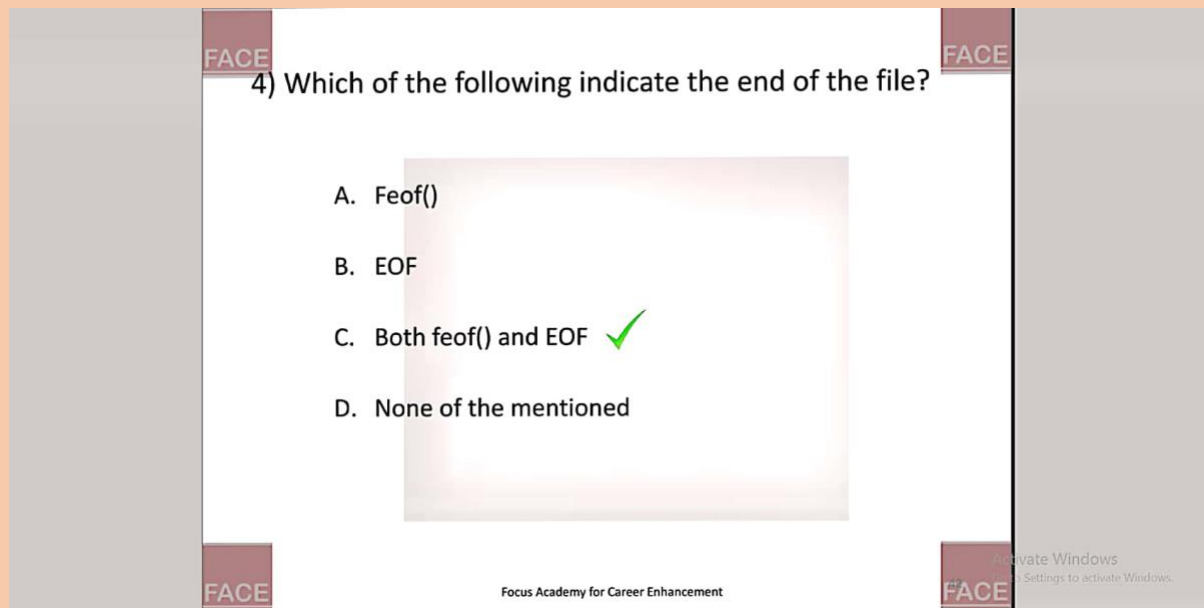
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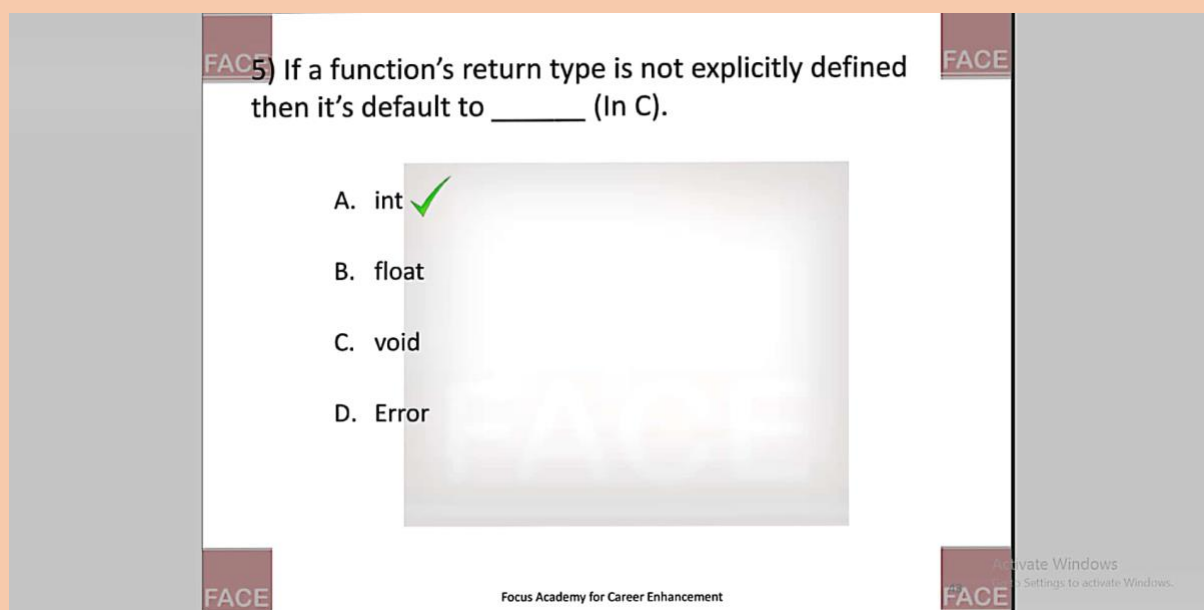
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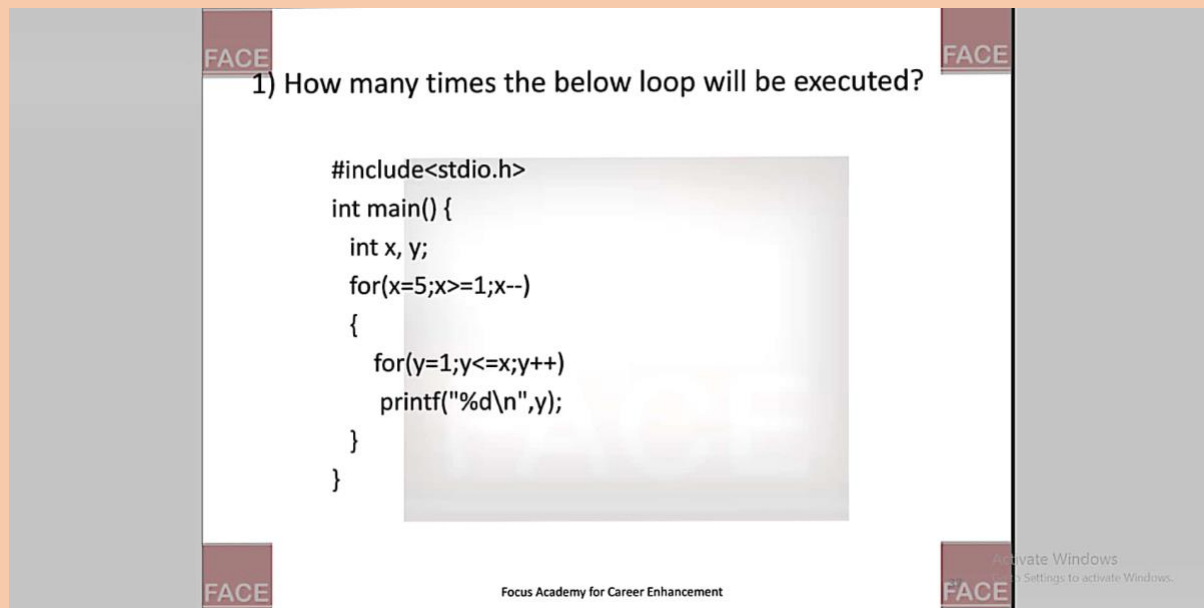
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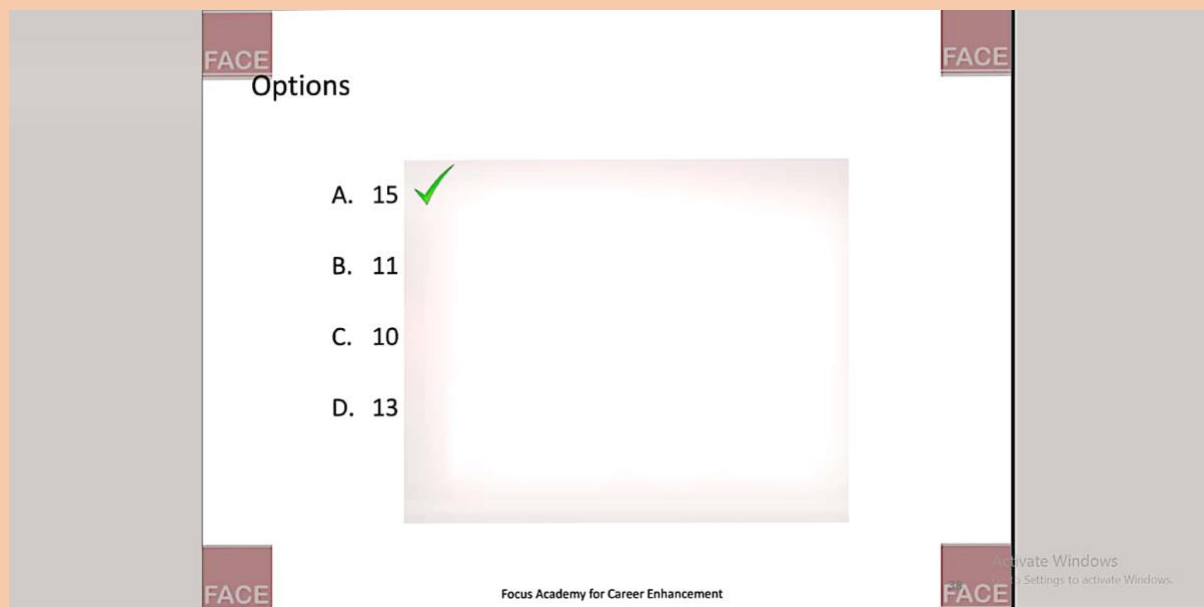
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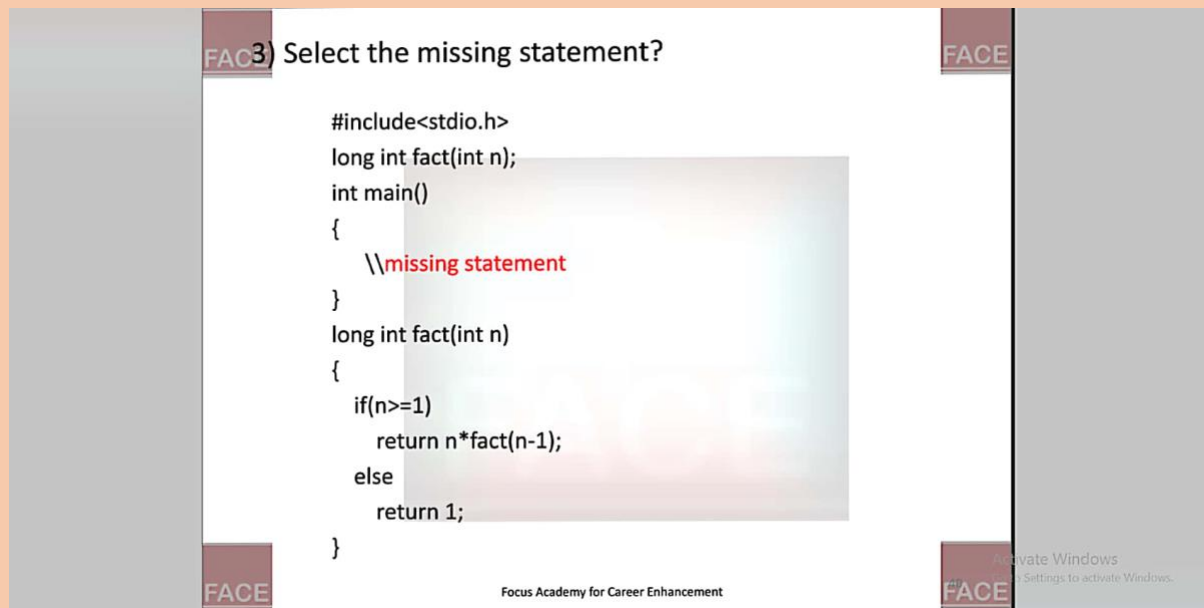
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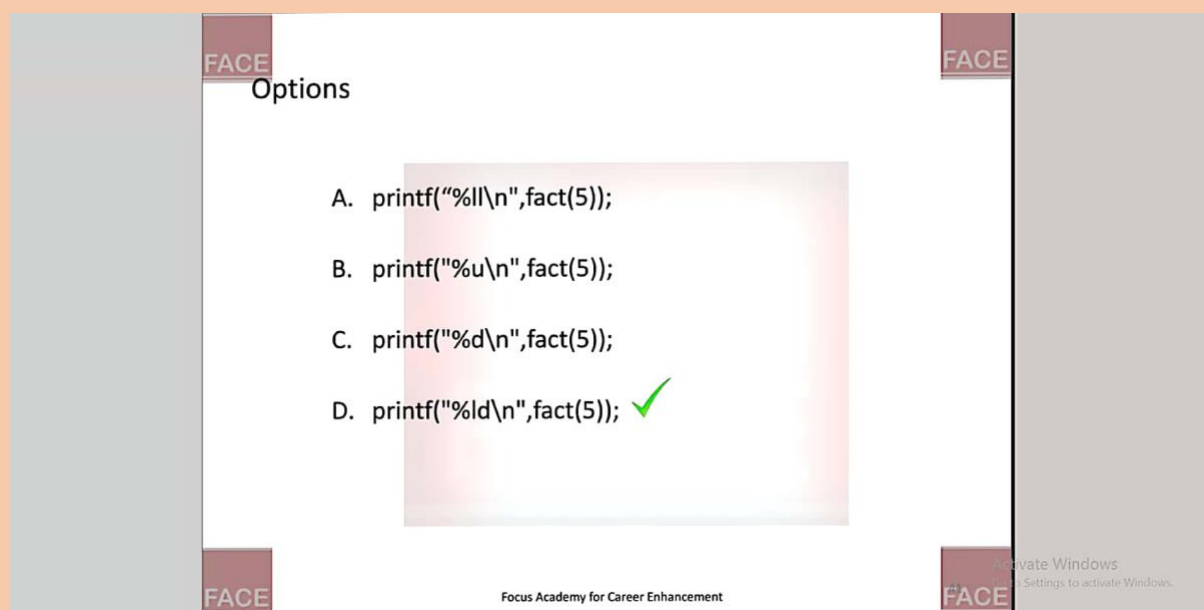
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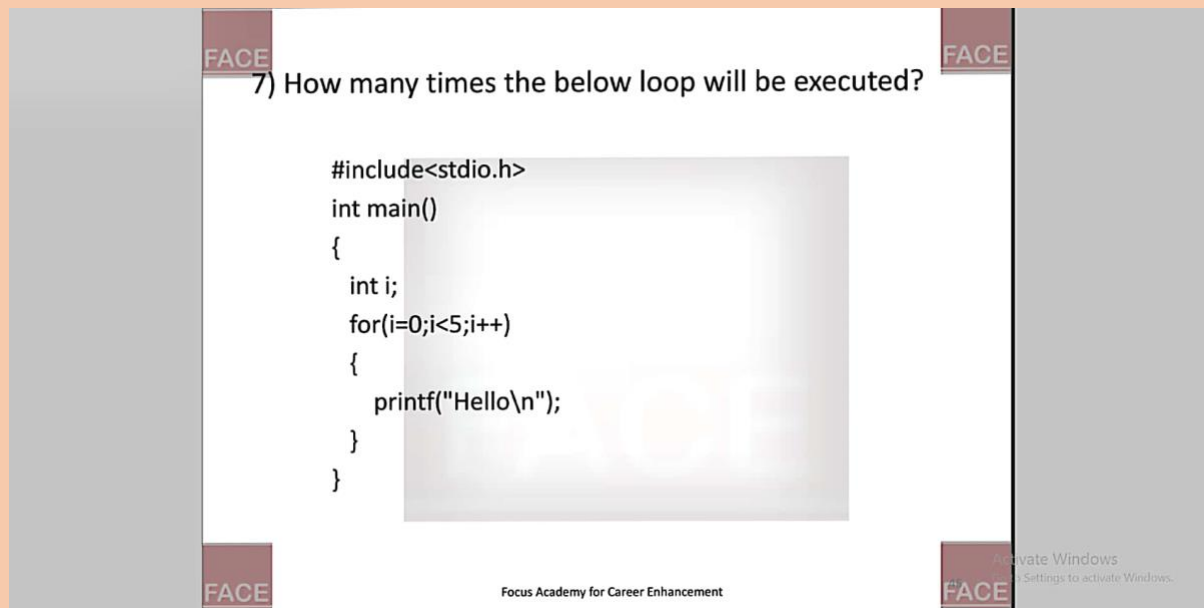
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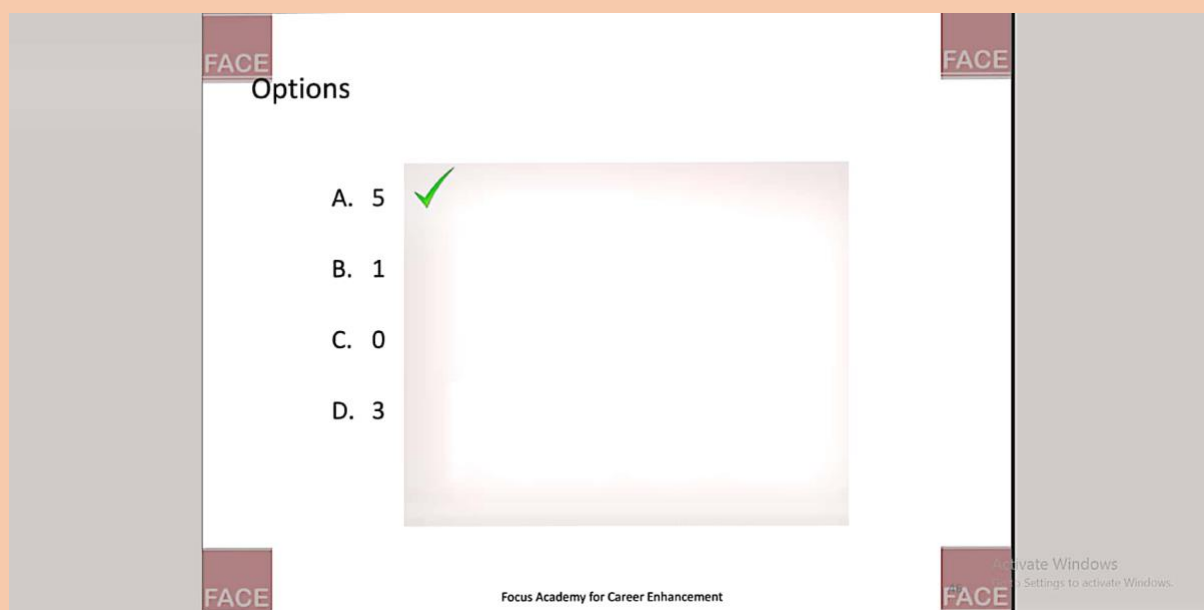
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Floating point types

The following table provide the details of standard floating-point types with storage sizes and value ranges and their precision –

Type	Storage size	Value range	Precision
float	4 byte	1.2E-38 to 3.4E+38	6 decimal places
double	8 byte	2.3E-308 to 1.7E+308	15 decimal places
long double	10 byte	3.4E-4932 to 1.1E+4932	19 decimal places

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9) Which has the highest precision?

- A. float
- B. double ✓
- C. unsigned long int
- D. Long int

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8) Which of the following is a User-defined data type?

- A. long int
- B. double
- C. unsigned long int
- D. enum ✓

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10) What will be the output/error?(for input: 6, 9

```
#include<stdio.h>
int fg(int,int);
int main()
{
    int n1,n2,g;
    scanf("%d%d",&n1,&n2);
    g=fg(n1,n2);
    printf("%d",g);
}

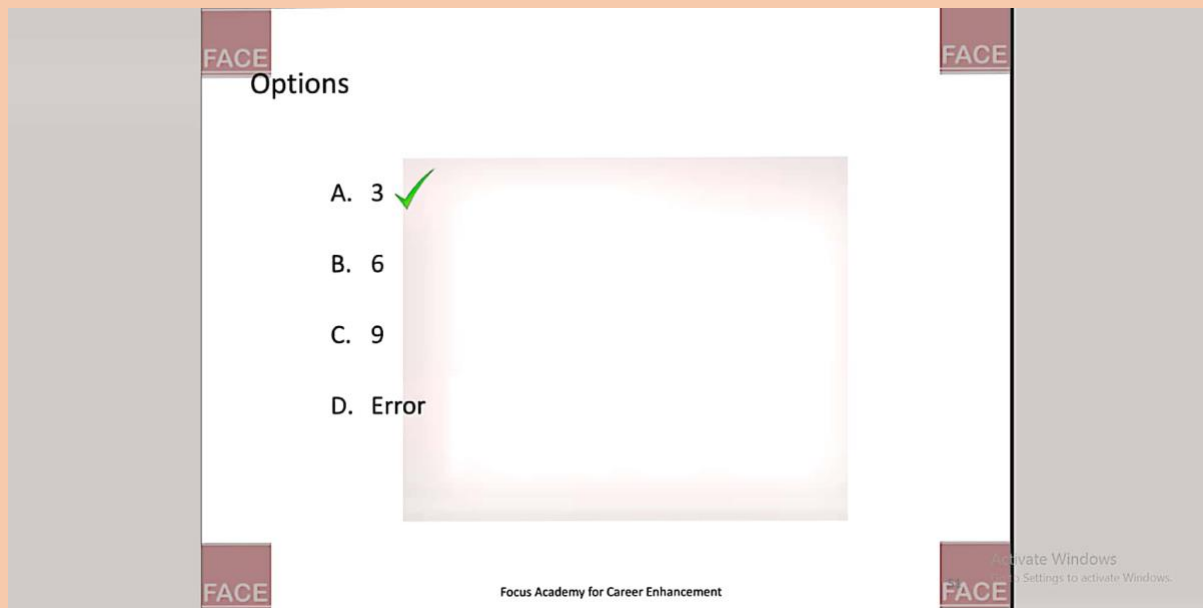
while(x!=y)
{
    if(x>y)
        return fg(x-y,y);
    else
        return fg(x,y-x);
}

return x;

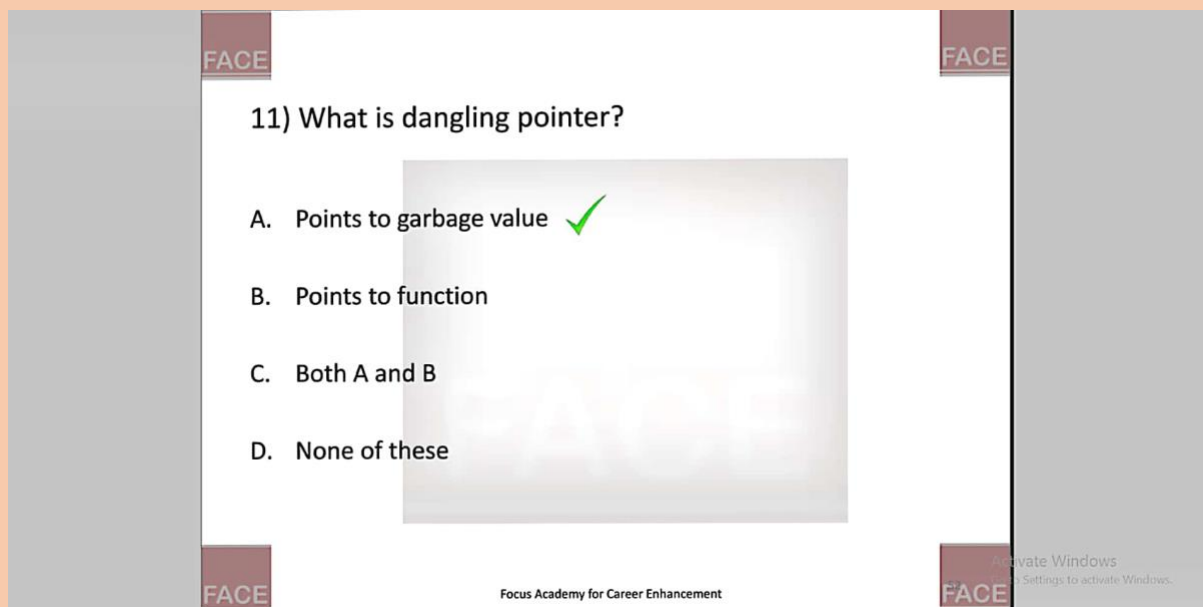
int fg(int x,int y)
```

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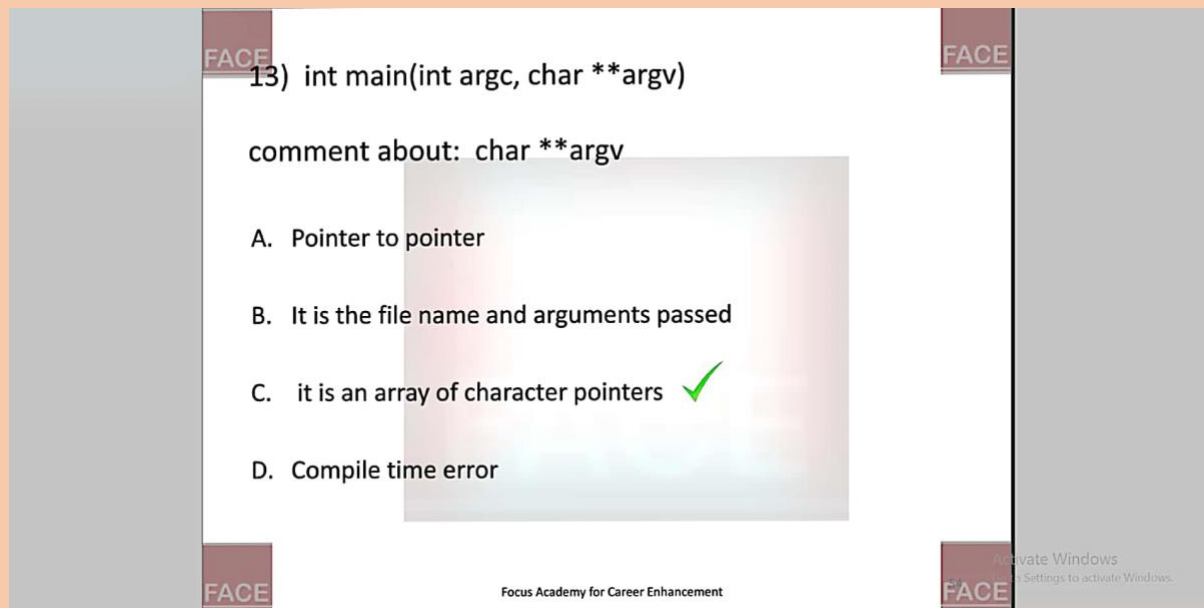
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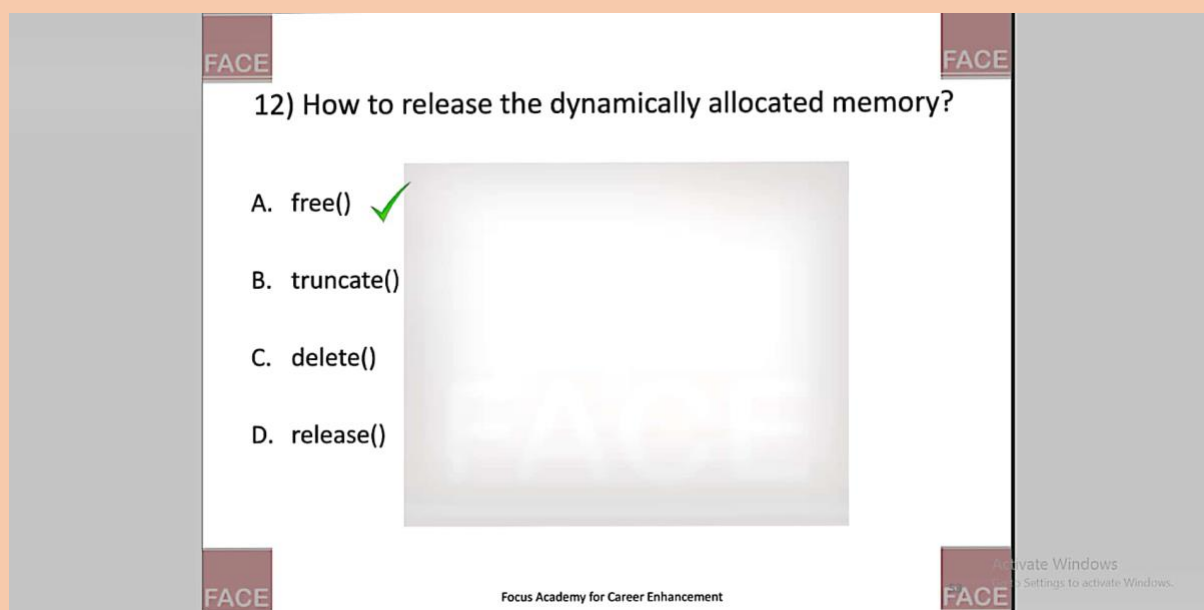
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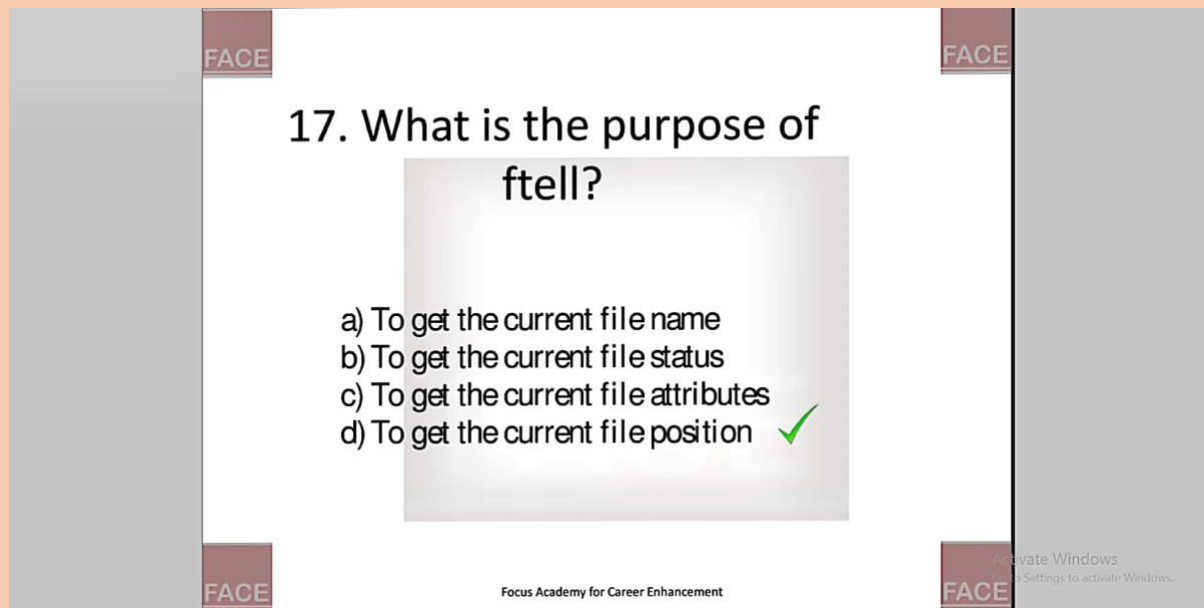
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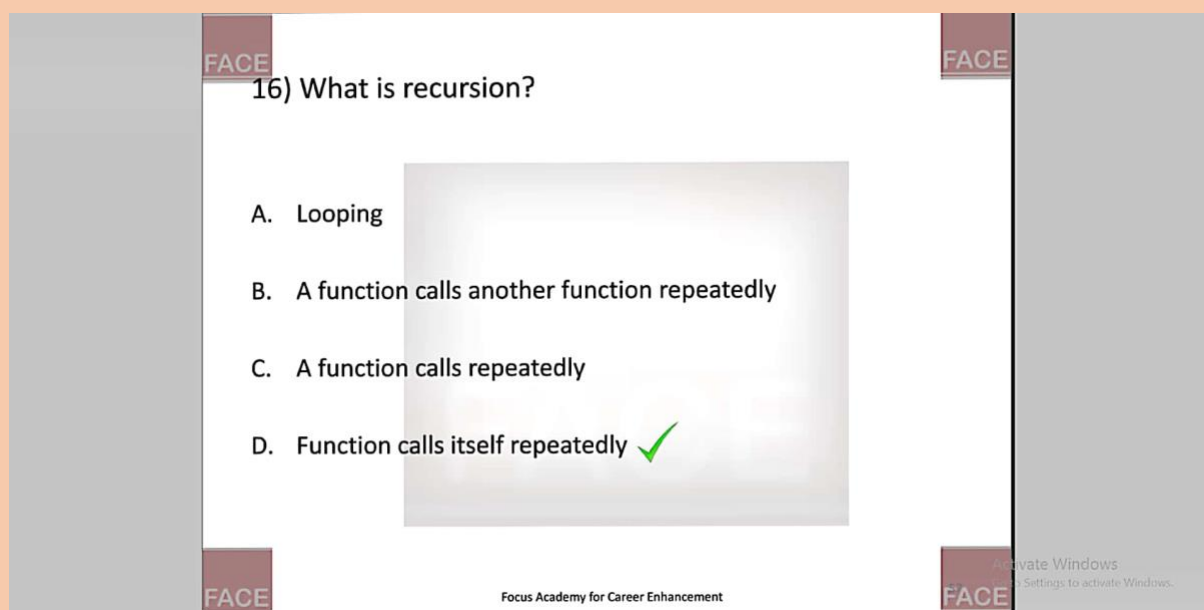
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15) What is the similarity between enum and struct?

- A. Can assign new values
- B. Can create new data types ✓
- C. Nothing in common
- D. They are same

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14) Predict the output

```
int main()
{
    float x = 0.1;
    if(x==0.1)
        printf("yes");
    else
        printf("no");
    return 0;
}
```

- a) Yes
- b) no ✓

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20. A memory leak happens when?

- a) A program allocates memory in heap but forget to delete it. ✓
- b) A program allocates memory in stack.
- c) When an unsigned pointer is freed using free function.
- d) When realloc() is called on a pointer that is not allocated .

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19. Which of the following is not a fundamental datatype?

- a) Enum
- b) Unsigned long int ✓
- c) Long int
- d) double

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18. What is the similarity between a structure, union and enumeration?

- a) All of them let you define new values
- b) All of them let you define new datatypes ✓
- c) All of them let you define new pointers
- d) All of them let you define new structures

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23. Which of the following is the correct order of evaluation for the below expression?

$$z = x + y * z / 4 \% 2 - 1$$

- a) $* / \% + - =$ ✓
- b) $= * / \% + -$
- c) $/ * \% - + =$
- d) $* \% / - + =$

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21. How many times hello will print?

```
#include <stdio.h>
int main(void)
{
    int i;
    for(i=0; i<5; i++);
    printf("hello");
}
```

a) Compilation error
b) 1 ✓
c) 4
d) Runtime error

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Question 2

In the below code, what concept is used:

```
#include<stdio.h>
long int fact(int n);
int main()
{
    int n;
    Printf("Enter a positive integer:");
    Scanf("%d",&n);
    Printf(" Factorial of %d=\ld',n,fact(n));
    return 0;
}
long int fact(int n)
{
    If (n>=1)
        return n*fact(n-1);
    Else
        return 1;
}
```

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Question 1

What will be the output of the below code:

```
#include<stdio.h>
int main()
{
float f = 0.1;
if( f==0.1)
printf("NO\n");
return 0;
}
```

a) NO
b) ERROR
c) NO output
d) Successfully complied but no output ✓

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25. Which of the following statements is true about the C language?

a) (void*)0 is different from a null pointer. ✓
b) Null pointer is another name for un initialized pointer.
c) Calloc() can be used only for character pointer allocation.
d) Char *i=0 and char *i=NULL means the same.

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22. What is the output of the given program if user gives HELLO as input?

```
#include <stdio.h>
#define MAX 20
char* fn(char[]);
int main(void)
{
    char str[MAX], *rev;
    printf("enter a word of size not more than 15 characters");
    scanf("%s", str);
    rev=fn(str);
    printf("%s\n", rev);
    return 0;
}
```

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```
char* fn(char str[])
{
    static int i=0;
    static char r[MAX];
    if(*str)
    {
        fn(str+1);
        r[i++]=*str;
    }
    return r;
}
```

- a) OLLEH ✓
- b) HELLO
- c) LLO
- d) ELLO

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Question 1

What will be the output of the below code:

```
#include<stdio.h>
int main()
{
float f = 0.1;
if( f==0.1)
printf("NO\n");
return 0;
}
```

a) NO
b) ERROR
c) NO output
d) Successfully complied but no output ✓

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25. Which of the following statements is true about the C language?

a) (void*)0 is different from a null pointer. ✓
b) Null pointer is another name for un initialized pointer.
c) Calloc() can be used only for character pointer allocation.
d) Char *i=0 and char *i=NULL means the same.

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24. What is the output if size for char is 1, int is 4, double is 8?

```
#include <stdio.h>
union u
{
    int a;
    char b;
    double c;
};

int main(void)
{
    union u n;
    printf("%d", sizeof(n));
    return 0;
}
```

- a) 8 ✓
- b) 4
- c) 1
- d) error

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Question 3

main(int argc, char** arg v)

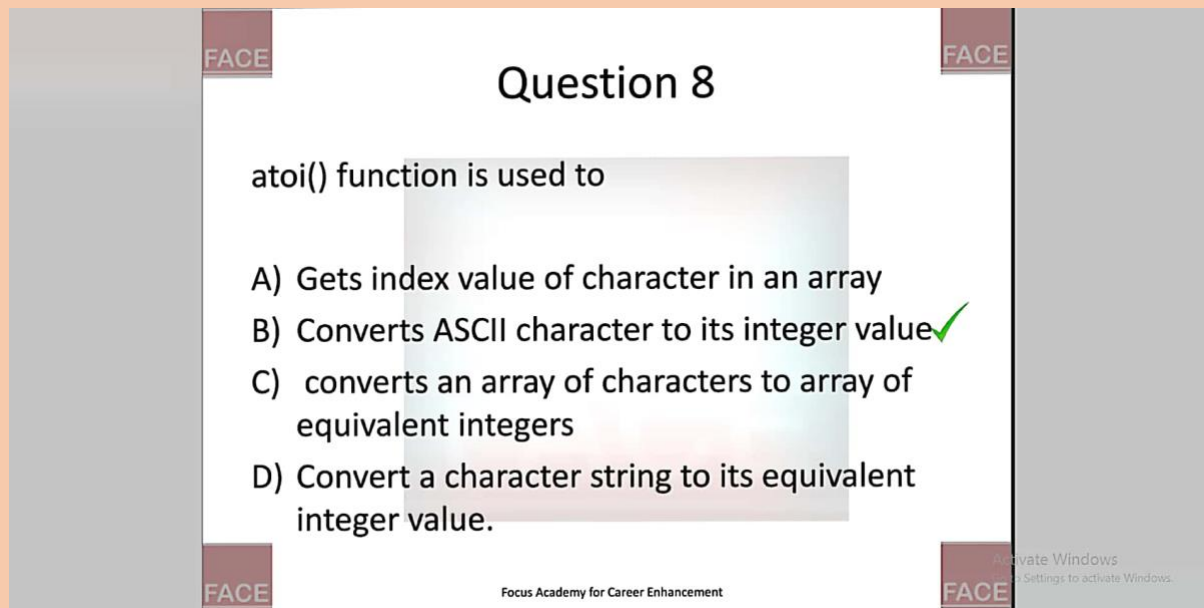
In the above definition of main function, the variable argv denotes:

- A) An array of character pointers each pointing to the command line parameters
- B) An array of character pointers, the first array item pointing to the program name and the remaining pointing to the command line parameters
- C) A pointer to character that points to command line parameters
- D) A pointer to a pointer that points to the memory location where the program has been loaded into the memory ✓

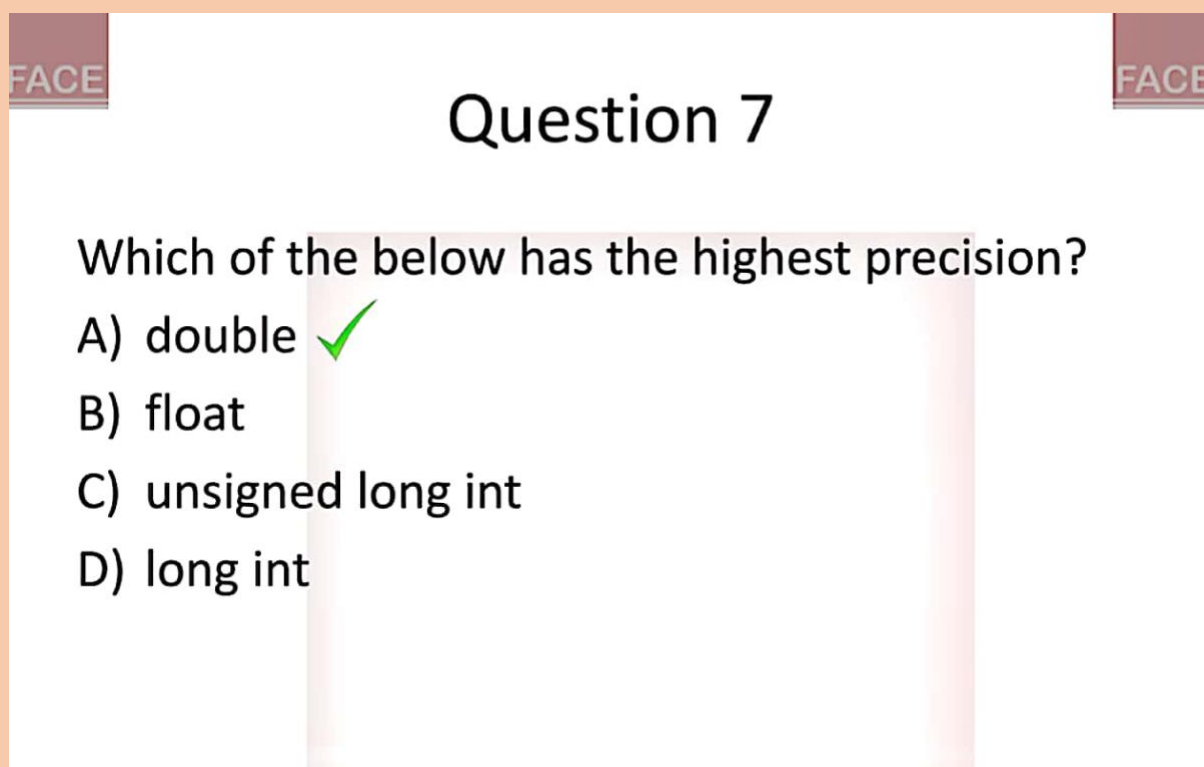
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Question 11

- Which of the below functions is NOT declared in string.h?

A) strcpy () ✓
B) strlen()
C) strcmp()

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Question 10

- While declaring parameters for main, the second parameter argv should be declared as

a) char**argv[] ✓
b) char argv[]
c) char arg
d) Cant access

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Question 9

Which of the following statements is true about C language ?

- A) There is a maximum limit to number of case instances inside a switch statement
- B) A do while loop is used to ensure that the statements within the loop are executed atleast once ✓
- C) Two case constants within the same switch statement can have the same value
- D) Continue keyword skips one iteration of loop

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Question 5

What does a default header file contain?

- A) Prototypes
- B) Declarations ✓
- C) Implementations
- D) All of the above

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Question 6

In the below code, the program expects the user to enter a word. If the user enters the word as ABRACADABRA , what is the output value printed:

```
#include<stdio.h>
#define MAX 20
char * fn(char());
int main()
{
char str[MAX], * rev;
Printf("Enter a word size not more than 15 characters:");
scanf("%s", str);
r=fn(str);
```

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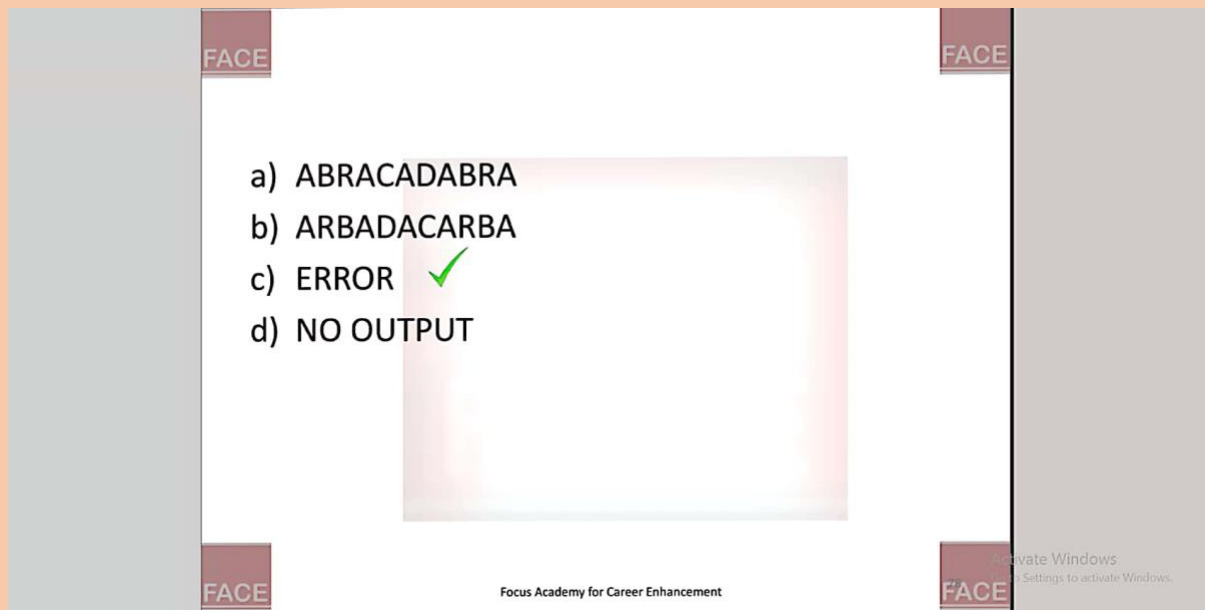
```
Printf("\m\n",r);
Return 0;
}
Char*fn(char str())
{
Static int i=0;
Static char r[MAX];
If(*str)
{
Fn(str+1);
R[i++]=*str;
}
Return r;
}
```

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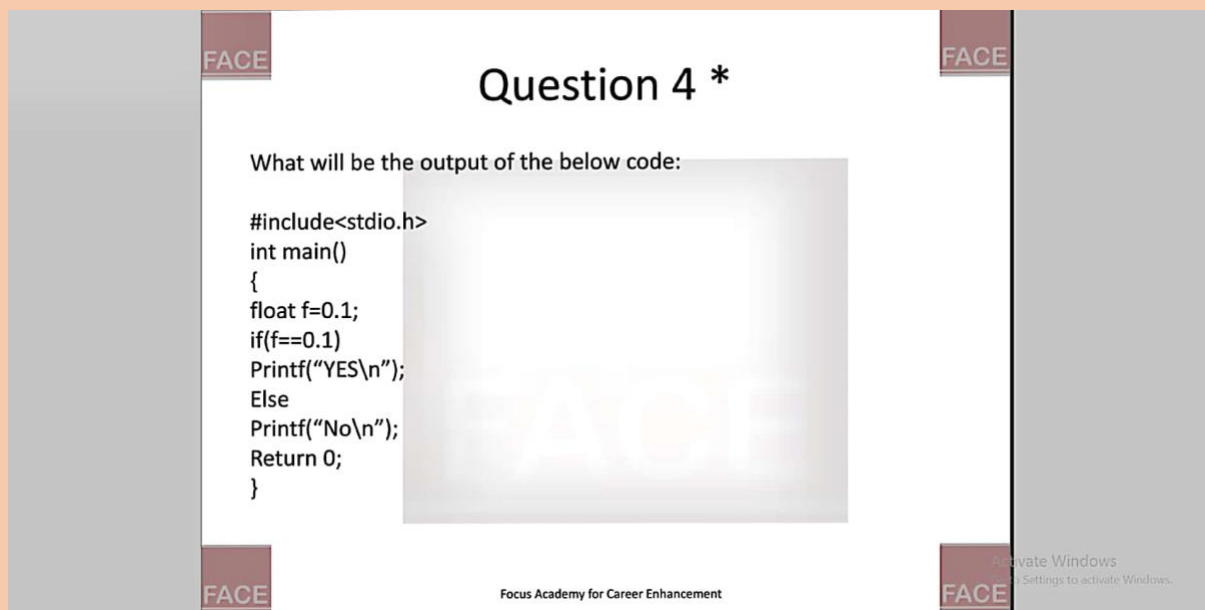
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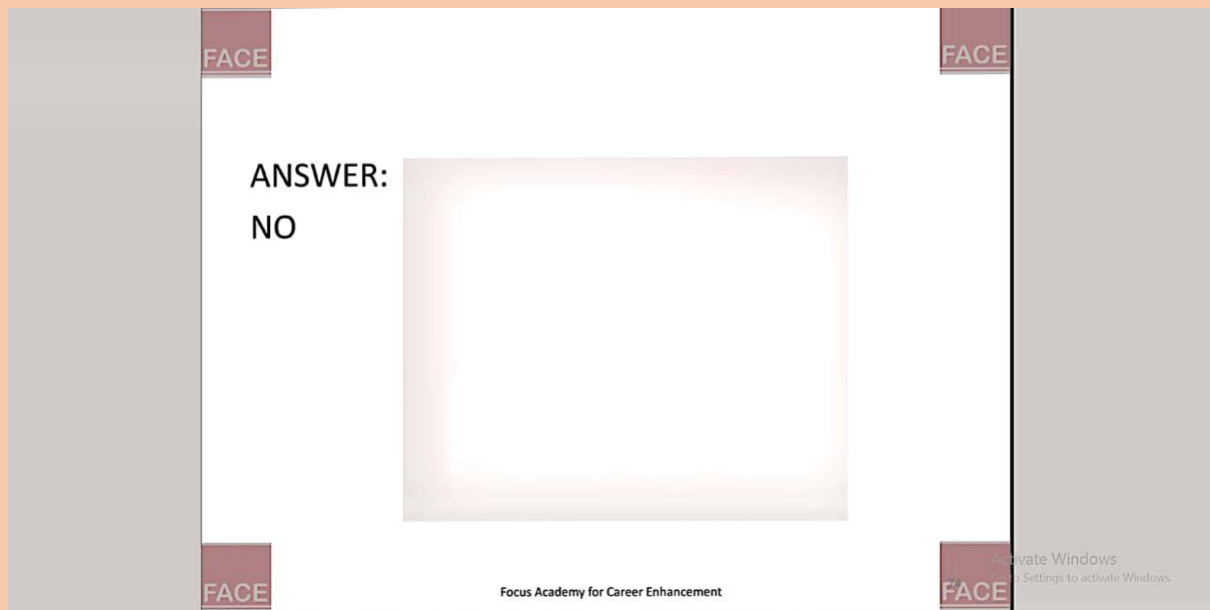


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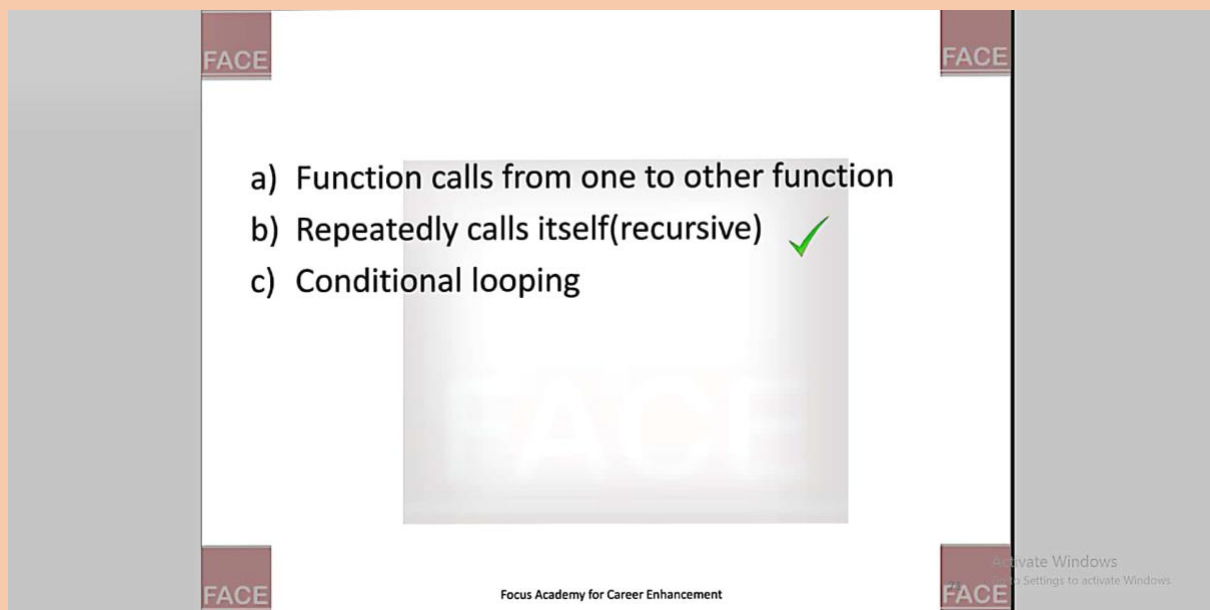


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