

Session 6 exercise

In C, if you pass an array as an argument to a function, what actually gets passed?

- A. Value of elements in array
- B. First element of the array
- C. Base address of the array

2. A function cannot be defined inside another function

A. True

B. False

Point out the error in the program

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

```
int main()
{
    int a=10;
    void f();
    a = f();
    printf("%d\n", a);
    return 0;
}
void f()
{
    printf("Hi");
}
```

- A. Error: Not allowed assignment
- B. Error: Doesn't print anything
- C. No error
- D. None of above

Static keyword with local variables affects :

A. Scope.

B. Life time.

Static keyword with Global variables affects :

A. Scope.

B. Life time.

Write a program in C to find the square of any number using the function.

Write a program in C to check a given number is even or odd using the function.

8. How many times the program will print "Hello World" ?

```
#include<stdio.h>

int main()
{
    printf("Hello World");
    main();
    return 0;
}
```

A. Infinite times

B. 32767 times

C. 65535 times

D. Till stack overflows

9. What will be the output of the program?

```
#include<stdio.h>
int reverse(int);

int main()
{
    int no=5;
    reverse(no);
    return 0;
}

int reverse(int no)
{
    if(no == 0)
        return 0;
    else
        printf("%d,", no);
    reverse (no--);
}
```

A. Print 5, 4, 3, 2, 1

B. Print 1, 2, 3, 4, 5

C. Print 5, 4, 3, 2, 1, 0

D. Infinite loop

10. If return type for a function is not specified, it defaults to int

A. True

B. False

Answers

1. Base address of the array.
2. True.
3. None of above.
4. Life time.
5. Scope.
6. Write a program in C to find the square of any number using the function.

```
Long long int Func_square(int x)
{
    Long long int result;
    result=x*x;
    return result;
}
```
7. Write a program in C to check a given number is even or odd using the function..

```
void even_odd_func(int x)
{
    if(x%2)
    {
        Printf("the number is odd");
    }
    else
    {
        Printf("the number is even");
    }
}
```
8. Till stack overflows.
9. Infinite loop.
10. True

