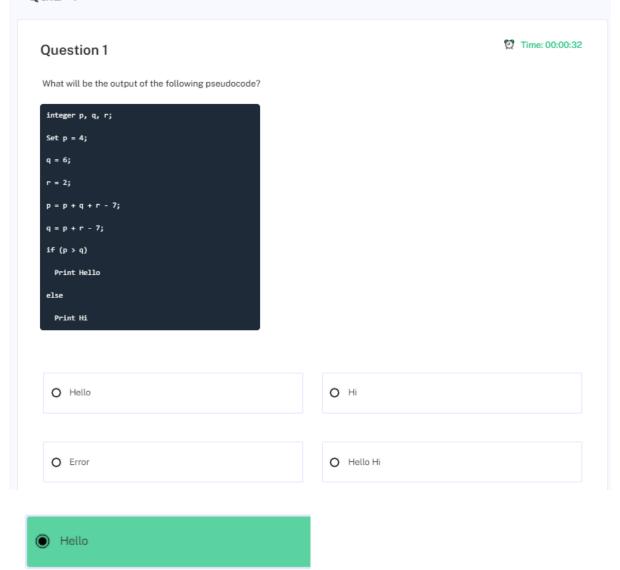
## Quiz-4



As we can see that the value of 'p' after solving the expression p + q + r - 7 will be 5 and now the value of 'q' will be 0 after solving the expression p + r - 7.

Now we can see that the value of p > q so the IF condition will get executed and 'Hello', will be printed



What will be the output of the following pseudocode if num=4 and element of the array are 1,2,3,4,5?

```
#include <stdio.h>
integer fun (int a[], int num)
   integer x;
if (num is equal to 1)
 return a[0];
else
  x = fun (a, num - 1);
if (x == a[num - 1])
  return x;
else
  return a[num - 1];
End the function fun ()
```

0 1

**O** 3

O 4

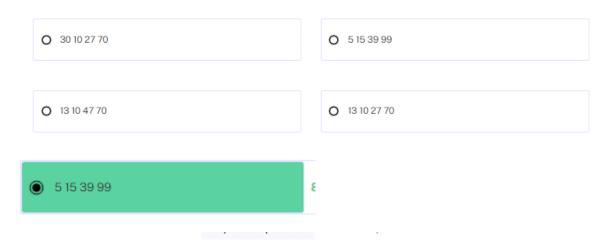
O 5

4

```
7 Time: 00:00:06
```

What will be the output of the following pseudocode?

```
#include <stdio.h>
int main()
{
    int p = 2, q = 3;
    for (int i = 0; i <= 6; i = i + 2){
        p = p + q + i;
        p = p + q;
        q = p - q;
        printf("%d ",q);
    }
}</pre>
```



The given for loop will be executed 4 times i.e for i= 0, 2, 4, 6. On first iteration the value of p will be 8 and q will be 5 similarly on second, third, and fourth iteration the value of p will be 20, 54,138, and value of q will be 15, 39, 99. Now that we are printing only the value of b so our output will be 5 15 39 99.



What will be the output of the following code:

```
#include <stdio.h>
int main()
{
    static float i=3;
    if(--i){
        main();
        printf("%f ",i);
    }
}
```

O 0.000000 0.000000

O Error

O Segmentation fault

O 3.0 3.0



Since i is a static variable and is stored in the Data Section, all calls to main share the same i.

First main function will call the 2nd main function at i=2.

Second main function will call the 3rd main function at i=1

if condition of 3rd main function is if(0) so, that won't be executed.

As, i is float hence both the 2nd and 3rd main function will print 0.000000.

So, the output is 0.000000 0.000000

What will be the output of the following code?

```
#include <stdio.h>
int main()
{
    int get_the_val;
    get_the_val = (100, 256, 3.3);
    printf("%d", get_the_val);
    return 0;
}
```



It will read the last value from the given set of the values and print the int part of the value

Question 6 Time: 00:00:05

What will be the output of the following pseudocode?

```
#include <stdio.h>
int main()
{
    int i,j;
    for(i=0;i<5;i++)
    {
        for(j=0;j<i;j++)
        {
            printf("%d ",i+j);
        }
        printf("\n");
    }
}</pre>
```

```
O 1233454567
```

O 1223334444

```
O 1121231234
```

O Error

## 1233454567

when i=0, the inner loop wont be executed at i=1, the inner loop will print 1 at i=2, the inner loop will print 2 3 at i=3, the inner loop will print 3 4 5 at i=4, the inner loop will print 4 5 6 7 So, the final output, 1 2 3 3 4 5 4 5 6 7

Time: 00:00:03 Question 7

what will be the output of the following pseudocode?

```
Integer n, rev, rem, orig;
   Set n=1331; rev=0;
   Set orig=n;
   Repeat while n Not Equals 0
       rem=n%10;
      rev=(rev*10)+rem;
       n=n/10;
       End while
   if(orig is Equal to rev)
       Print Palindrome
   else
       Print Not Palindrome
   End if
```

O Not Palindrome

O Run Time Error

O Palindrome

O Compile Time Error

Palindrome

```
#include<stdio.h>
int main()
{
    int n=1331,rev,rem,orig;
    orig=n;
    rev=0;
    while(n != 0)
    {
        rem=nX10;
        rev=(rev*10)+rem;
        n=n/10;
    }
    if(orig == rev)
    printf(" Palindrome ");
    else
    printf("Not Palindrome ");
}
```

The above code will test that whether the entered number is an palindrome or not

Question 8 Time: 00:00:03

What will be the output of the pseudocode?

```
#include <stdio.h>
int main()
{
    static int val = 5.2;
    printf("%d ",val--);
    if(1.25)
        main();
}
```

| O 1.5 | O 5.2           |
|-------|-----------------|
|       |                 |
| O 4.2 | O Infinite loop |



This code will get stuck in the infinite loop as IF condition will always be true

Question 9 Time: 00:00:05

What will be the output of the following pseudo code?

```
#include <stdio.h>
int main()
{
    int a=97,b=97,c=98;
    if(a>b && a>c)
    {
        printf("%d ",a);
    }
    if(b>a && b>c)
    {
            printf("%d ",b);
    }
    if(c>a && c>b)
    {
            printf("%d ",c);
    }
}
```

O 98

O b O 97

98

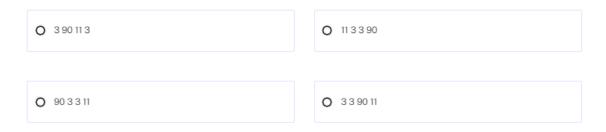
Ne are finding the greatest number in this pseudo code

Question 10 Time: 00:00:04

What will be the output of the following pseudocode?

```
integer a,b

Set a=2; b=90
while(b>9)
    a = b%2 + a
    if( a%2 != 0)
        Print a
    else
        Print b
    b = b/2
End while
```





Step 1-a=0+2=2, print 90,b=45

Step 2-a=1+2=3, print 3, b=22

Step 3 -a= 0+3=3, print 3, b=11

Step 4-a=1+3=4, print 11, b=5

6000000 Date: Pseudocode <u>Quiez-4</u> J Pseudo code Executionso initialize Nariables: .. p-4, 9, =6, x-2 (1) up date p: P-P+9+8-7-3+6+2-7-5 (i) update q: Q-P+x-7=5+2-7=0 (i) check condition (P>2): · Compare P=5 and q=0 · Sinco 5>0, conditionisterus Doubput - 12 block executes, painting "Helio 2) Criven: - Array a: 51,2,3,4,5]
initial Coll: Pun (a,4) (sincerum) 1) First Call Clunchion Card) ofx (5) Second Car (fun Car3)). · Pecusively Call Pun (a, 2) & stone sesulinx (3) Thisd can Chun (a, 2)):

(2) itenation (1-2):

M T W T F S S p=p+9+1 = 8+5+2=15 p= p+9=15+5=20 Q-P-Q=20-15=15 parint 9 - 15, (3) Ci=4): P=P+9+1-20+15+4-39 P=P+9-37+15-54 N=P-9=54-15-39 Parint 9, 539, A 1-6: P-P+9+1-54+39+6-99 P-P+9-99+39-138 9-P-9-138-39-99 6 point 9 =99, Octoput: - 5.15 3999 initialize i=3 (float) i -- (i-2) then call mail) at i= 2, i-- -) i-1 than callmain () : moisensore en ibniumal (x Paint 1 (from print ("104") 1) Dut put: 1 11 5 Assign gat the wal-(100,256.3.3)

Date: · discard Comma operater except 3.3 output - 3, i Declare i & uninitialized j cot en nord 2 mure i : 9001 20 to j into mort some i: 9001 rand Final output: - Error Cundefinenberg 7 paindrome Check Set n - 1331, new-0 Reverse n: nem - 1, rev-1, n=133 nem - 3, nev- 13, n-13 nem = 3, nev = 133, no 1 nem=1, nev=1331, n=0 3 (compare orig (1331) and ever (1331) 8 i) initialize int val - 5.2 letamoreilles in print 5, then decrets (i--) to a. · Output: -555. Cinfinite 100P 9 Values: a-97, C-90

M T W T F S S Date: o con para - ash les asc state b)able 50-) Falle C)a && C>5 -> Town 3 paint (C(98) 10/initialize: a-2, b-90 100PC b >9): ileration: b=90 -) Point90->b-45 iteration 2! b-45 + paint 3: 4 b-20 iteration 3: b-22 ) paint 3 -> 1:11. iteration 4: b-11-) Paint 11-) b= 5 (exit Dulput - 90, 28, 32, 11