

ASSESSMENT - 1

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III - Year

ECE

22/8/2021

1) Find the output of the program.

ii)

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

```
int fun();
```

```
int main() {
```

```
    foo(fun(), fun(), fun()) {
```

```
        printf("%d", fun());
```

```
    }
```

```
    return 0;
```

```
}
```

```
int fun() {
```

```
    static int num = 10;
```

```
    return num--;
```

```
}
```

output

852

2)

1) what is the 16 bit compiler allowable range for integer constants.

d) -32768 to 32767

2) what is the output of statement "printf("%d", (a++))?"

b) The current value of a.

3. In the C language, the constant is defined

c) Anywhere, but starting on a new line.

4) loop construct that will always be executed atleast once?

d) do while.

5) Array is a — data structure

c) linear.



output2.c



```
1 #include <stdio.h>
2 int fun();
3 int main()
4 {
5     for (fun();fun();fun())
6     {
7         printf("%d",fun());
8     }
9     return 0;
10 }
11 int fun()
12 {
13     static int num=10;
14     return num--;
15 }
16
```



Run



output2



852



Run Again

4)

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

```
int main()
```

```
{
```

```
int n, i, j;
```

```
printf("Enter the no. of rows: ");
```

```
scanf("%d", &n);
```

```
for (i = 1; i <= n; i++)
```

```
{
```

```
for (j = 1; j <= 2 * n - 1; j++)
```

```
{
```

```
if (j >= n - (i - 1) && j <= n + (i - 1))
```

```
{
```

```
printf("* ");
```

```
}
```

```
else
```

```
printf(" ");
```

```
}
```

```
printf("\n");
```

```
}
```

```
return 0;
```

```
}
```

output

Enter the no. of rows : 5

```

      *
    * * *
  * * * * *
* * * * * *
* * * * * * *
```



```
1 #include <stdio.h>
2 int main()
3 {
4     int n,i,j;
5     printf("Enter the no.of rows:");
6     scanf("%d",&n);
7     for(i=1;i<=n;i++)
8     {
9         for(j=1;j<=2*n-1;j++)
10        {
11            if(j>=n-(i-1)&&j<=n+(i-1))
12            {
13                printf("*");
14            }
15            else
16                printf(" ");
17        }
18        printf("\n");
19    }
20    return 0;
21 }
22
```



Run



5star pattern



Enter the no.of rows:5

```
*  
***  
*****  
*****  
*****
```



Run Again

- 5) Given the array consisting of alphabets and digits, find the frequency of each digit / alphabet in the given string.

Program:

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>
int main()
{
    char ar[100], i;
    int j, count;
    scanf("%s", ar);
    for (i = 48; i <= 57; i++) {
        count = 0;
        for (j = 0; j < strlen(ar); j++) {
            if (ar[j] == i)
                count++;
        }
        printf("%d", count);
    }
    return 0;
}
```

Output:

11 4 7 2 0 5 1 6
0 2 1 0 1 1 1 0 0



output3.c



```
4 #include <stdlib.h>
5 int main()
6 {
7     char ar[1001],i;
8     int j,count;
9     scanf("%s",ar);
10    for(i=48;i<=57;i++){
11        count=0;
12        for(j=0;j<strlen(ar);j++){
13            if(ar[j]==i)
14                count++;
15        }
16        printf("%d",count);
17    }
18    return 0;
19 }
20
21
```



Run



Free 10-question
Practice Quiz!

 **ISACA**
TAKE THE QUIZ >



output3



a11472o5t6
0210111100



Run Again



Free 10-question
Practice Quiz!

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