

Output Prediction Questions in LOOPS

Type, compile and execute the following programs and record the results and justify the output.

Predict the output of the following:-

```
1.    int main()
    {

        char cnt=0;
        for(;cnt++;printf("%d",cnt)) ;
        printf("%d",cnt); return 0;

    }
```

```
2.    int main()
    {

        int tally=0;
        for(;;)
        {
            if(tally==10)
                break;
            printf("%d ",++tally);
        }
        return 0;
    }
```

```
3.    int main()
    {
        int i,j,charVal='A';

        for(i=5;i>=1;i--)
        {
            for(j=0;j< i;j++)
                printf("%c ",(charVal+j));
            printf("\n");
        }
        return 0;
    }
```

```
4.    int main()
    {

        int cnt=1;
        do
        {
```

```

        printf("%d",cnt);
        cnt+=1;
    }while(cnt>=10); printf("\nAfter
loop cnt=%d",cnt); printf("\n");
    return 0;
}

```

```

int main()
{
    int loop=10;
    while(printf("Hello ") && loop--);
    return 0;
}

```

```

5.    int main()
{ int i=2,j=2;
while(i+1?--i:j++)
    printf("%d",i);
    return 0;
}

```

```

6.    int main()
{ int
i,j;

    i=j=2,3; while(--i&&j++)
    printf("%d %d",i,j);
    return 0;
}

```

```

7.    int main()
{
    int i;
    for(i=0;i<=5;i++);
    printf("%d",i);
    return 0;
}

```

```

8.    int main()
{
    int i;
    for(i=10;i<=15;i++){
        while(i){
do{            printf("%d ",1);
                if(i>>1)
                    continue;        } while(0);
                break;
        }
    }
    return 0;
}

```

```
}
```

```
9.    int main()
{
    int i,j,k;
    for(i=0,j=2,k=1;i<=4;i++){
        printf("%d",i+j+k);
    }    return 0;
}
```

```
10.   int main()
{
    double k = 0;
    for (k = 0.0; k < 3.0; k++)
        printf("Hello");
    return 0;
}
```

```
11.   int main()
{
    int i=5;        do{
        printf("%d",i);
        continue;
    } while(i<=10);
    i++;
    return 0;
}
```

```
12.   int main()
{
    int i,j,k;
    for(i=0;i<3;i++){
        for(j=0;j<3;j++){
            printf(" %d",i+j);
        }
    }
    return 0;
}
```

```
13.   #include<stdio.h> int main()
{   int
n;
for (n
= 9;
n!=0;
n--)
printf(
"n =
%d",
```

```
n--);  
return  
0; }
```

```
14.    #include <stdio.h> int  
        main()  
{    int c = 5, no =  
10;    do {        no  
/= c;    } while(c--  
);
```

```
    printf ("%d\n", no);  
return 0; }
```

```
15.    #include <stdio.h> int  
        main()  
{    char check =  
'a';    switch  
(check)  
    {  
        case 'a' || 1: printf("Geeks ");  
  
        case 'b' || 2: printf("Quiz ");  
break;  
        default: printf("GeeksQuiz");  
    }  
    return 0; }
```

```
16.  
#include<stdio.h> int  
main()  
{    int i =  
-5;  
    while (i <= 5)  
    {        if(i  
>= 0)  
break;        else  
{            i++;  
continue;  
        }  
        printf("C Prog");  
    }  
    return 0; }
```

```
17.    #include  
<stdio.h> void  
main()  
{
```

```
char cnt=0; for(;cnt++;printf("%d",cnt)) ;
printf("%d",cnt);
}
```

```
18.    #include
<stdio.h> void
main()
{    int
i,j,charVal='A';

    for(i=5;i>=1;i--)
    {
        for(j=0;j< i;j++)
printf("%c ",(charVal+j));
        printf("\n");
    }
}
```

```
19.    #include
<stdio.h> void
main()
{    int cnt=1;
while(cnt>=10)
{
    printf("%d,",cnt);
cnt+=1;
}
    printf("\nAfter loop cnt=%d",cnt);
printf("\n"); }
```

```
20.    #include
<stdio.h> int
main()
{
    int i=1;
    while(i<=10 &&
1++)
printf("Hello"); }
```

```
21.
#include<stdio.h> int
main(){
    int i=2,j=2;
while(i+1?-i;j++)
printf("%d",i);
return 0; }
```

```
22.
#include<stdio.h>
```

```

int main(){
    int      i=1;
    for(i=0;i=-1;i=1) {
        printf("%d      ",i);
        if(i!=1) break;
    }
    return 0; }

```

23.

```

#include<stdio.h> int
main(){
    int i;
    for(i=10;i<=15;i++){
        while(i){      do{
            printf("%d ",1);
            if(i>>1)
                continue;
        }while(0);      break;
    }
}
return 0; }

```

24. #include<stdio.h>

```

int main(){
    char c=125;  do
        printf("%d ",c);
    while(c++);  return
0; }

```

25.

```

#include<stdio.h>
int main(){  int
x=123;
    int i={
        printf("c" "++")
    };
    for(x=0;x<=i;x++){
        printf("%x ",x);
    }
    return 0; }

```