**PROGRAM 17:**

1. Write a LEX program to print all the constants in the given C source program file.

**Input Source Program: (sample.c)**

#define PI 3.14

#include<stdio.h> #include<conio.h>

void main()

{

int a,b,c = 30;

printf("hello");

}

**LEX CODE:-**

**%{**

**#include <stdio.h>**

**%}**

**%%**

**[0-9]+ { printf("Constant: %s\n", yytext); }**

**\"[^\"]\*\" { printf("String Constant: %s\n", yytext); }**

**#define[ \t]+[A-Za-z\_][A-Za-z0-9\_]\*[ \t]+[0-9]+ { printf("Macro Constant: %s\n", yytext); }**

**%%**

**int main(int argc, char \*\*argv) {**

**yylex();**

**return 0;**

**}**

**C- CODE:-**

#define PI 3.14

#include<stdio.h>

#include<conio.h>

void main()

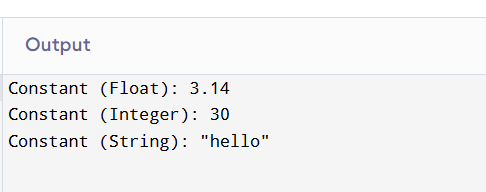
{

int a, b, c = 30;

printf("hello");

}

**OUTPUT:-**

****