**Macro & Preprocessor**

1. What is the output of following program

#include <stdio.h>

#define PRINT(i, limit) do \

{ \

if (i++ < limit) \

{ \

printf("GeeksQuiz\n"); \

continue; \

} \

}while(1)

int main()

{

PRINT(0, 3);

return 0;

}

1. What is the output of following program

#include <stdio.h>

#if X == 3

#define Y 3

#else

#define Y 5

#endif

int main()

{

printf("%d", Y);

return 0;

}

1. What is the output of following program

#include <stdio.h>

#define macro(n, a, i, m) m##a##i##n

#define MAIN macro(n, a, i, m)

int MAIN()

{

printf("GeeksQuiz");

return 0;

}

1. What is the output of following program

#include <stdio.h>

#define X 3

#if !X

printf("Geeks");

#else

printf("Quiz");

#endif

int main()

{

return 0;

}

1. What is the output of following program

#include <stdio.h>

#define ISEQUAL(X, Y) X == Y

int main()

{

#if ISEQUAL(X, 0)

printf("Geeks");

#else

printf("Quiz");

#endif

return 0; }

1. What is the output of following program?

#include <stdio.h>

#define square(x) x\*x

int main()

{

int x;

x = 36/square(6);

printf("%d", x);

return 0;

}

1. What is the output of following program?

# include <stdio.h>

# define scanf "%s Geeks Quiz "

int main()

{

printf(scanf, scanf);

return 0;

}

1. What is the output of following program?

#include <stdio.h>

#define a 10

int main()

{

  printf("%d ",a);

  #define a 50

  printf("%d ",a);

  return 0;

}

1. What is the output of following program?

#include<stdio.h>

#define f(g,g2) g##g2

int main()

{

int var12 = 100;

printf("%d", f(var,12));

return 0;

}

1. Which file is generated after pre-processing of a C program?
2. What is the use of "#pragma once"?
3. What is the output of following program?

#include <stdio.h>

#define MAX 1000

int main()

{

int MAX = 100;

printf("%d ", MAX);

return 0;

}

1. What is the output of following program?

#include<stdio.h>

#define max abc

#define abc 100

int main()

{

printf("maximum is %d", max);

return 0;

}

1. What is the output of the following program?

#include <stdio.h>

#define get(s) #s

int main()

{

char str[] = get(GeeksQuiz);

printf("%s", str);

return 0;

}

1. What does this MACRO do?

#define INC1(a) ((a)+1)

#define INC2 (a) ((a)+1)

#define INC3( a ) (( a ) + 1)

#define INC4 ( a ) (( a ) + 1)

1. What will be the output of following program?

#include “stdio.h”

#include “stdio.h”

#include “stdio.h”

int main()

{

printf(“Whether this statement would be printed?”)

return 0;

}

1. What will be the output of following program?

#include<stdio.h>

#define A -B

#define B -C

#define C 5

int main()

{

printf("The value of A is %d\n", A);

return 0;

}