1. Comment on the output of this C code?

**#include <stdio.h>**

**int add(int a, int b)**

**{**

**return a + b;**

**}**

**int main()**

**{**

**int (\*fn\_ptr)(int, int);**

**fn\_ptr = add;**

**printf("The sum of two numbers is: %d", (int)fn\_ptr(2, 3));**

**}**

1. Compile time error, declaration of a function inside main.
2. Compile time error, no definition of function fn\_ptr.
3. Compile time error, illegal application of statement fn\_ptr = add.
4. No Run time error, output is 5.
5. What is the output of this C code?

**#include <stdio.h>**

**void main()**

**{**

**int k = 5;**

**int \*p = &k;**

**int \*\*m = &p;**

**\*\*m = 6;**

**printf("%d\n", k);**

**}**

1. 5
2. Compile time error
3. 6
4. Junk
5. What is the output of this C code?

**#include <stdio.h>**

**void main()**

**{**

**int a[3] = {1, 2, 3};**

**int \*p = a;**

**int \*\*r = &p;**

**printf("%p %p", \*r, a);**

**}**

1. Different address is printed
2. 1 2
3. Same address is printed
4. 1 1
5. Which of the following syntax is correct for command-line arguments?
6. **int main(int var, char \*varg[ ])**
7. **int main(char \*argv[ ], int argc)**
8. **int main(){ int argv, char \*argc[ ]; }**
9. **Both (a) and (b)**
10. What is the output of this C code?

**#include <stdio.h>**

**struct p**

**{**

**unsigned int x : 2;**

**unsigned int y : 2;**

**};**

**int main()**

**{**

**struct p p;**

**p.x = 3;**

**p.y = 1;**

**printf("%d\n", sizeof(p));**

**}**

1. Compile time error
2. Depends on the compiler
3. 2
4. 4
5. What is the output of this C code?

**#include <stdio.h>**

**int main()**

**{**

**char \*str = "hello, world\n";**

**printf("%d", strlen(str));**

**}**

1. What is the output of this C code?

**#include <stdio.h>**

**int main()**

**{**

**char str[10] = "hello";**

**char \*p = strrchr(str, 'l');**

**printf("%c\n", \*(++p));**

**}**

1. What is the output of this C code?

**#include <stdio.h>**

**#include <ctype.h>**

**int main()**

**{**

**char c = 't';**

**printf("is :%c\n", tolower('A'));**

**}**

1. What is the difference in the ASCII value of capital and non-capital of the same letter is?
2. What is the output of this C code if 2 character is typed by the user?

**#include <stdio.h>**

**#include <string.h>**

**int main()**

**{**

**char line[3];**

**fgets(line, 3, stdin);**

**printf("%d\n", line[2]);**

**return 0;**

**}**

1. What is the output of this C code?

**#include <stdio.h>**

**struct student**

**{**

**int no = 5;**

**char name[20];**

**};**

**void main()**

**{**

**struct student s;**

**s.no = 8;**

**printf("hello");**

**}**

1. Nothing
2. Compile time error
3. hello
4. Varies
5. What is the output of this C code?

**#include <stdio.h>**

**void main()**

**{**

**struct student**

**{**

**int no;**

**char name[20];**

**};**

**struct student s;**

**s.no = 8;**

**printf("%s", s.name);**

**}**

1. Nothing
2. Compile time error
3. Junk
4. 8
5. Which of the following are themselves a collection of different data types?
6. **string**
7. **structures**
8. **char**
9. **All of the mentioned**
10. What is the output of this C code (when 4 and 5 are entered)?

**#include <stdio.h>**

**void main()**

**{**

**int m, n;**

**printf("enter a number");**

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

**scanf("%d", &m);**

**printf("%d\t%d\n", n, m);**

**}**

1. **Error**
2. **4 junkvalue**
3. **Junkvalue 5**
4. **4 5**
5. What is the output of this C code?

**#include <stdio.h>**

**#include <stdlib.h>**

**int main()**

**{**

**FILE \*fp = stdout;**

**int n;**

**fprintf(fp, "%d", 45);**

**}**

1. **Compilation error**
2. **45**
3. **Nothing**
4. **Depends on the standard**
5. What is the size of float in a 32-bit compiler?

**\_\_\_\_\_\_\_\_\_**

1. What is the output of this C code?

**#include <stdio.h>**

**printf("%.0f", 2.89);**

**\_\_\_\_\_\_\_\_\_**

1. What is the output of this C code?

**#include <stdio.h>**

**int main()**

**{**

**float a = 2.455555555555;**

**printf("%f", a);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. What is the output of this C code?

**#include <stdio.h>**

**printf("%d", sizeof('a'));**

**\_\_\_\_\_\_\_\_\_**

1. What is the output of this C code?

**#include <stdio.h>**

**union temp**

**{**

**char a;**

**char b;**

**int c;**

**}t;**

**int main()**

**{**

**printf("%d", sizeof(t));**

**return 0;**

**}**

1. **Which of following is not accepted in C?**
2. static a = 10; //static as
3. static int func (int); //parameter as static
4. static static int a; //a static variable prefixed with static
5. All of the mentioned
6. **Comment on the 2 arrays regarding P and Q:**

**int \*a1[8];**

**int \*(a3[8]);**

**P. Array of pointers**

**Q. Pointer to an array**

1. a1 is P, a2 is Q
2. a1 is P, a2 is P
3. a1 is Q, a2 is P
4. a1 is Q, a2 is Q
5. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int ary[2][3];**

**foo(ary);**

**}**

**void foo(int \*ary[ ])**

**{**

**int i = 10, j = 2, k;**

**ary[0] = &i;**

**ary[1] = &j;**

**\*ary[0] = 2;**

**for (k = 0;k < 2; k++)**

**printf("%d\n", \*ary[k]);**

**}**

1. 2 2
2. Compile time error
3. Undefined behaviour
4. 10 2
5. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**register auto int i = 10;**

**i = 11;**

**printf("%d\n", i);**

**}**

1. 10
2. Compile time error
3. Undefined behaviour
4. 11
5. **The sizeof(void) in a 32-bit C is ?**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**void f(int (\*x)(int));**

**int myfoo(int);**

**int (\*fooptr)(int);**

**int ((\*foo(int)))(int);**

**int main()**

**{**

**fooptr = foo(0);**

**fooptr(10);**

**}**

**int ((\*foo(int i)))(int)**

**{**

**return myfoo;**

**}**

**int myfoo(int i)**

**{**

**printf("%d\n", i + 1);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**void f(int);**

**void (\*foo)() = f;**

**int main()**

**{**

**foo(10);**

**return 0;**

**}**

**void f(int i)**

**{**

**printf("%d\n", i);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int i = -3;**

**int k = i % 2;**

**printf("%d\n", k);**

**}**

1. **What will be the value of d in the following program?**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10, b = 5, c = 5;**

**int d;**

**d = b + c == a;**

**printf("%d", d);**

**}**

1. Syntax error
2. 1
3. 5
4. 10
5. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10;**

**if (a == a--)**

**printf("TRUE 1\t");**

**a = 10;**

**if (a == --a)**

**printf("TRUE 2\t");**

**}**

1. TRUE 1
2. TRUE 2
3. TRUE 1 TRUE 2
4. No output
5. **What is the output of this C code?**

**#include <stdio.h>**

**void main()**

**{**

**double x = 123828749.66;**

**int y = x;**

**printf("%d\n", y);**

**printf("%lf\n", y);**

**}**

1. 0, 0.0
2. 123828749, 123828749.66
3. 12382874, 12382874.0
4. 123828749, 0.000000

1. **What is the output of this C code?**

**#include <stdio.h>**

**void main()**

**{**

**char a = 'a';**

**int x = (a % 10)++;**

**printf("%d\n", x);**

**}**

1. 6
2. Junk value
3. Compile time error
4. 7
5. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int i = 3;**

**int l = i / -2;**

**int k = i % -2;**

**printf("%d %d\n", l, k);**

**return 0;**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int i = 5;**

**i = i / 3;**

**printf("%d\n", i);**

**return 0;**

**}**

1. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int i = -5;**

**i = i / 3;**

**printf("%d\n", i);**

**return 0;**

**}**

1. **What is the value of x in this C code?**

**#include <stdio.h>**

**void main()**

**{**

**int x = 5 \* 9 / 3 + 9;**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10;**

**double b = 5.6;**

**int c;**

**c = a + b;**

**printf("%d", c);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**void main()**

**{**

**int a[3] = {1, 2, 3};**

**int \*p = a;**

**int \*\*r = &p;**

**printf("%p %p", \*r, a);**

**}**

1. Different address is printed
2. 1 2
3. Same address is printed
4. 1 1
5. **What is the output of this C code?**

**#include <stdio.h>**

**void main()**

**{**

**char a[10][5] = {"hi", "hello", "fellows"};**

**printf("%d", sizeof(a[1]));**

**}**

1. 2
2. 4
3. 5
4. 10
5. **The correct way to generate numbers between minimum and maximum(inclusive) is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
6. minimum + (rand() % (maximum – minimum));
7. minimum + (rand() % (maximum – minimum + 1));
8. minimum \* (rand() % (maximum – minimum))
9. minimum – (rand() % (maximum + minimum));
10. **Which among the following has the highest precedence?**
11. &
12. <<
13. sizeof()
14. &&
15. **What is the output of this C code?**

**#include <stdio.h>**

**struct p**

**{**

**int x;**

**int y;**

**};**

**int main()**

**{**

**struct p p1[ ] = {1, 92, 3, 94, 5, 96};**

**struct p \*ptr1 = p1;**

**int x = (sizeof(p1) / 5);**

**if (x == 3)**

**printf("%d %d\n", ptr1->x, (ptr1 + x - 1)->x);**

**else**

**printf("false\n");**

**}**

1. Compile time error
2. 1 5
3. Undefined behaviour
4. false
5. **Comment on the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**char c;**

**int i = 0;**

**FILE \*file;**

**file = fopen("test.txt", "w+");**

**fprintf(file, "%c", 'a');**

**fprintf(file, "%c", -1);**

**fprintf(file, "%c", 'b');**

**fclose(file);**

**file = fopen("test.txt", "r");**

**while ((c = fgetc(file)) != -1)**

**printf("%c", c);**

**return 0;**

**}**

1. **What is the output of this C code?**

**#include <stdio.h>**

**void main()**

**{**

**int x = 1, y = 0, z = 5;**

**int a = x && y || z++;**

**printf("%d", z);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What will be the value of d in the following program?**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10, b = 5, c = 5;**

**int d;**

**d = b + c == a;**

**printf("%d", d);**

**}**

**\_\_\_\_\_\_\_\_\_**

1. **What is the output of this C code?**

**#include <stdio.h>**

**int main()**

**{**

**int a = 10, b = 5, c = 5;**

**int d;**

**d = a == (b + c);**

**printf("%d", d);**

**}**

scanf(“%[^\n]s”, **string**);