CSA02- ASSIGNMENT

1. What will be the output if you execute the following code in C

#include<stdio.h>

Int main()

{

int arr[]={6,12,18,24};

int x=0;

x=arr[1]+(arr[1]=2);

printf("%d",x);

return 0;

}

Output

14

1. What will be the output if you execute the following code in C?

#include<stdio.h>

#include<conio.h>

void main()

{

int i=3,val;

val=sizeof f(i)+ +f(i=1)+ +f(i-1);

printf("%d %d",val,i);

}

int f(int num)

{

return num\*5;

}

Output

91

3. What will be the output of following c program?

#include<stdio.h>

#include<conio.h>

float avg(float,float,float);

int main(){

float p=1.1,q=2.1,r=-2.1,a;

a=avg(p,(q=4,r=-12,q),r);

printf("%f",a);

getch();

}

float avg(float x,float y,float z){

return (x+y+z)/3;

}

Output

1.000000

4.Predict the output or error(s) for the following program

#include<stdio.h>

void main()

{

int const \* p=5;

printf("%d",++(\*p));

}

Output

-2.333333

5. Predict the output or error(s) for the following program:

#include<stdio.h>

int main()

{

int c[ ]={2.8,3.4,4,6.7,5};

int j,\*p=c,\*q=c;

for(j=0;j<5;j++)

{

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

++q;

}

for(j=0;j<5;j++){

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

++p; }

}

Output

2 2 2 2 2 2 3 4 6 5

6. Predict the output or error(s) for the following program:

#include<stdio.h>

int main()

{

char string[] = "Hello World";

printf("%s\n", string);

return 0;

}

Output

Hello world

7. Print the following hill pattern ,

#include <stdio.h>

#include <conio.h>

void main()

{

int i,j,rows;

clrscr();

printf("Enter the number of rows:");

scanf("%d",&rows);

for(i=1;i<=rows;i++)

{for(j=1;j<=1;j++){

printf("%d",j);

}

}

getch();

}

Output

Enter a number to define the rows

1

21

321

4321

54321

**8.** Find the **index** of **first** occurrence of X in the array of N elements, if the element not present then print -1

#include <stdio.h>

int main()

{

int arr[100], N, X;

printf("Enter the size of the array: ");

scanf("%d", &N);

printf("Enter the array elements: ");

for (int i=0; i<N; i++) {

scanf("%d", &arr[i]);

}

printf("Enter the element to search for: ");

scanf("%d", &X);

int index = -1;

for (int i=0; i<N; i++) {

if (arr[i] == X) {

index = i;

break;

}

}

if (index == -1) {

printf("Element not found in the array\n");

} else {

printf("Element found at index %d\n", index);

}

return 0;

}

Output

Enter the size of the array: 4

Enter the array elements: 1 2 3 4

Enter the element to search for: 2

Element found at index 1

9. What will be output of following c program?

#include "string.h"

typedef struct stu1

{

char name1[6];

char name2[6];

double marks;

}STU1;

void main()

{

STU1 s1={"rohit","kumar",87.43},\*p1;

char \*p;

p1=&s1;

p=memchr(p1,'u',sizeof(STU1));

printf("%s",p);

}

Output

Umar

10. Predict the output or error(s) for the following program:

#define square(x) x\*x

main()

{

int i;

i = 64/square(4);

printf("%d",i);

}

Output

4