X

Unit 14 - Week 12

Assignment 12

The due date for submitting this assignment has passed. Due on 2020-04-22, 23:59 IST.
As per our records you have not submitted this assignment.

1) Which of the following are themselves a collection of different data types? ***1 point***

- a) String
- b) Array
- c) Character
- d) Structure

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) Structure

2) ***1 point***

What is the output?

```
#include<stdio.h>
int main()
{
struct xyz{ int a;};
struct xyz obj1={11};
struct xyz obj2 = obj1;
printf("%d", obj2.a);
obj2.a = 101;
printf("%d", obj1.a);
printf("%d", obj2.a);
return 0;
}
```

a) 1111011
b) 1111101
c) 1110111
d) 1110011

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 1111101

3) ***1 point***

What will be output?

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
   int i;
   int *ptr = (int *) malloc(5 * sizeof(int));
   for (i=0; i<5; i++)
      *(ptr + i) = i;
       printf("%d ", *ptr++);
       printf("%d ", (*ptr)++);
       printf("%d ", *ptr);
       printf("%d ", *++ptr);
       printf("%d ", ++*ptr);
       return 0;
    }
```

a) Error

Assignment Solution

- b) 0 1 2 3 4
- c) 1 2 3 4 5
- d) 0 1 2 2 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 0 1 2 2 3

4) What will be output? ***1 point***

```
#include <stdio.h>
int fun(int arr[]) {
  arr = arr+2;
  printf("%d ", arr[0]);
}
int main()
{
  int arr[3] = {7, 11, 19};
  fun(arr);
  printf("%d ", arr[0]);
  printf("%d ", arr[1]);
  return 0;
}
```

- a) 19 19 11
- b) 7 7 11
- c) 9 7 11
- d) 19 7 11

No, the answer is incorrect.
Score: 0

Accepted Answers:
d) 19 7 11

5) ***1 point***

What is the output of the following C code? Assume that the address of x is 2000 (in decimal) and an integer requires four bytes of memory

```
#include <stdio.h>
int main()
{
  unsigned int x[4][3] = {{1, 2, 3}, {4, 5, 6},
                          {7, 8, 9}, {10, 11, 12}};
  printf("%u, %u, %u", x+3, *(x+3), *(x+2)+3);
return 0;
}
```

a) 2036 2036 2036
b) 2012 4 2204
c) 2036 10 10
d) 2012 4 6

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 2036 2036 2036

6) **1 point**

In which condition “Hello world!” will be printed?

```
#include<stdio.h>
#include<stdlib.h>
int main()
  {
    int *ptr;
    ptr = (int *)malloc(sizeof(int)*10);
    if (ptr == NULL)
       printf("Hello world!\n");
    return 0;
  }
```

a) if the memory has been allocated to the pointer “ptr” successfully
b) if the memory could not be allocated to the pointer “ptr”
c) it will never print
d) None

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) if the memory could not be allocated to the pointer “ptr”

7) **1 point**

The program will allocate …….bytes to ptr. Assume sizeof(int)=4.

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
 int *ptr;
 ptr = (int*)malloc(sizeof(int)*4);
 ptr = realloc(ptr,sizeof(int)*2);
 return 0;
}
```

a) 2
b) 4
c) 8
d) None

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 8

8) ***1 point***

What does fp point to in the program?

```
#include<stdio.h>
int main()
{
   FILE *fp;
   fp=fopen("hello", "r");
   return 0;
}
```

a) The first character in the file
b) A structure which contains a char pointer which points to the first character of a file.
c) The name of the file.
d) The last character in the file

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) A structure which contains a char pointer which points to the first character of a file.

9) ***1 point***

What is the output of the following C program?

```
#include <stdio.h>
int main()
{
        int *p, a=100;
        p=&100;
        printf("%d",*p);
        return 0;
}
```

a) 10
b) a
c) address of a
d) compilation error

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) compilation error

10 What is the output of the following C program? **1 point**

```
#include <stdio.h>
struct p
{
   int x;
   char y;
};
int main()
{
   struct p p1[] = {1,21,69,42,64};
   struct p *ptr1 = p1;
   int x = (sizeof(p1) / 4);
   if (x == sizeof(int) + 2*sizeof(char))
      printf("True");
   else
      printf("False");
   return 0;
}
```

- a) True
- b) False
- c) No output
- d) Compilation error

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) True