C Quiz 6 Q&A (28-11-2023)

1. what will be the output of this code?
```c
#include<stdio.h>
int main( void )
{
int a[5]={100,1,0,200,1};
int i=2,j,m;
m= a[i++]++  +  ++a[++i] ;
printf("\n m = %d \n",m);
return 0;
}
```
Answers

1. 100
2. 200
3. 201
4. 2

2.
```c
#include <stdio.h>
int main(void)
{
int arr[] = {11, 22, 12, 42, 58, 67};
int *ptr = (int*)(&arr+1);
ptr--;
printf("\nptr=%u",*ptr+1);
}
```
Answers

1. 67
2. Garbage
3. 23
4. 68

3.
```c
#include <stdio.h>
int main(void)
{
        int i=0;
        char *name = "Sunbeam";
        name[i]='A';
        printf("%s",name);
}
```
Answers

1. Compile time Error
2. Sunbeam
3. Aunbeam
4. Runtime Error

4. What will be the output of this code?

```c
int main(void)
{
double arr[4]={11.1, 22.2, 33.3, 44.4};
double *p = arr+2;
p -= 1;
*p++ = 30.30;
printf("%.2f %.2f",*p,arr[2]);
return 0;
}
```

Answers

1. 30.30 22.20
2. 30.30 33.30
3. 33.30 33.30
4. 22.20 30.30

5. what will be the output of this code?

```c
#include<stdio.h>
int main()
{
        int arr[] = {11, 12, 13, 14, 15};
        printf("%d\t%d\t%d",*(arr+3),++*(arr+3),++3[arr]);
         return 0;
}
```

Answers

1. Compile Time Error
2. 14   14   14
3. 14   15   15
4. 16   16   15

6. 1.What will be the O/P of the following code?

```c
#include<stdio.h>
int main()
{
        int arr[8] = {1,2,3,4,5,6,7,8};
        printf("%d",(arr+1)[3]);
}
```

Answers

1. 3
2. 4
3. 5
4. Compile Error

```c
7. #include <stdio.h>
int main(void)
{
int arr1[] = {1,2,3,4,5};
int arr2[] = {1,2,3,4,5};
if(arr1==arr2)
        printf("Same");
else
        printf("Not same");
}
```
Answers

1. Not same
2. Runtime Error
3. Same
4. Compile time Error

```c
8. #include<stdio.h>
int main()
{
        int i;
        int arr[5]={1,2,3,4,5};
        *arr+=*(arr+3)-2[arr];
        for (i = 0; i < 5; ++i)
        {
                printf("\t%d,",arr[i]);
        }
}
```
Answers

1. 2,2,3,4,5
2. 1,2,3,4,5
3. Compile time error
4. 3,3,3,4,5

```c
9. #include <stdio.h>
int main(void)
{
        char str1[]="Sunbeam";
        printf("%d",*(str1+strlen(str1)));
}
```
Answers

1. Garbage
2. 8
3. 7
4. 0

10. What will be the output of this code?

```c
#include<stdio.h>
#include<string.h>
int main(void)
{
        char *str1 = "Sunbeam";
        char *str2= "Sunbeam";
        if ( str1 == str2 )
                printf("\n Strings Are Equal");
        else
                printf("\n Strings Are Not Equal");
        return 0;
}
```

Answers

1. Strings are Equal
2. Strings are Not Equal
3. Compile Time Error
4. No Output

--- Compiled by Utkarsh Singh ---