Outputs for questions 4,6,7,8

4. Write an equivalent pointer expression for fetching the value of array element a[i][j][k][2]

ANS: *(*(*(*(a + i) + j) + k) + 2)

6. Find the output of the following // Consider the compiler is 32-bit machine

```
#include <stdio.h>
typedef struct
{
int A;
char B;
char C;
} InfoData;
int main(int argc, char *argv[])
{
//Calculate size of structure
printf("\n Size of Structure = %d\n\n",sizeof(InfoData));
return 0;
}
```

ANS: Size of Structure = 8

7. Find the output of the following // Consider the compiler is 32-bit machine

```
#include <stdio.h>
typedef struct
{
char A;
double B;
char C;
} InfoData;
int main(int argc, char *argv[])
{
//Calculate size of structure
printf("\n Size of Structure = %d\n\n",sizeof(InfoData));
return 0;
}
```

ANS: Size of Structure = 24

8. Find the output of the following // Consider the compiler is 32-bit machine

```
#include <stdio.h>
#include <stdint.h>
int main()
{
   unsigned int  var = 0x12345678;
   unsigned int  rev = 0;
   for (int i = 0; i < 8; i++)
   {
      rev = (rev << 4) | ((var >> (4 * i)) & 0xF);
   }
   printf("%X", rev);
   return 0;
}
```

ANS: 87654321