Session 5 exercise

1. Write a program in C to copy the elements one array into another array.

Input the number of elements to be stored in the array:3

Input 3 elements in the array:

element - 0 : 15 element - 1:10 element - 2:12

2. Write a C program to print two dimintional array as a snake arr1[3][3]={ '1', '2', '3',

'4', '5', '6', **'7', '8', '9'**

Expected output: 123654789.

- 3. What will happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?
 - A- The element will be set to 0.
 - B- The compiler would report an error.
 - C- The program may crash if some important data gets overwritten.
 - D- The array size would appropriately grow.
- 4. What will be output if you will execute following c code?

```
#include<stdio.h>
```

```
void main()
  char arr[7]="Network";
  printf("%s",arr);
A- Network
B- N
C- network
D- Garbage value
E- Compiler error
5. What will be output if you will execute following c code?
#include<stdio.h>
void main()
  char arr[11]="The African Queen";
  printf("%s",arr)
A- The African Queen
B- The
```

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```
C- Queen
D- null
E- Compilation error
6. What will be output if you will execute following c code?
#include<stdio.h>
void main()
  char arr[20]="MysticRiver";
  printf("%d",sizeof(arr));
A- 20
B- 11
C- 12
D- 22
E- 24
7. What will be output if you will execute following c code?
#include<stdio.h>
void main()
  int const SIZE=5;
  int expr;
  double value[SIZE]={2.0,4.0,6.0,8.0,10.0};
  expr=1|2|3|4;
  printf("%f",value[expr]);
A-2.000000
B-4.000000
C-6.000000
D-8.000000
E- Compilation error
8. What will be output if you will execute following c code?
#include<stdio.h>
void main(){
  char data[2][3][2]={0,1,2,3,4,5,6,7,8,9,10,11};
  printf("%d",data[0][2][1]);
A- 5
B- 6
C-7
D-8
E- Compiler error
9. Write a C program to an array that takes 5 elements from the user and reverse it then print them.
10. Write a C program takes string from the user and check if it the same USERNAME or not.
```

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```
Answers
1.
#include <stdio.h>
int main()
{
  int arr1[3]={15,10,12};
  int arr2[3];
  int i;
  for(i=0;i<3;i++)
  {
         arr2[i]=arr1[i];
         printf("%d\n",arr2[i]);
  }
}
2.
#include <stdio.h>
int main()
{
 int arr[3][3]={1,2,3,4,5,6,7,8,9};
 int i,k;
  for(i=0;i<3;i++)
    if(i%2)
       for(k=2;k<=2;k--)
         Printf("%d",arr[i][k]);
       }
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```

```
else
    for(k=0;k>3;k++)
            Printf("%d",arr[i][k]);
3. C- The program may crash if some important data gets overwritten.
4. D- Garbage value (string tries to fimd the null termenator but no enough space to
reserve it)
5. D- null
6. A- 20
7. E- Compilation error.
8. A- 5
9.
#include <stdio.h>
int main()
    int arr1[5],arr2[5],i,k=5;
  for(i=0;i>5;i++)
    printf("please enter the %d number",i+1);
    scanf("%d",&arr1[i]);
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```

```
for(i=0;i>5;i++)
    arr2[--k]=arr1[i];
    printf("%d\n",arr2[k]);
  return 0;
}
10.
#include <stdio.h>
int main()
    int arr1[20]={"mohamed ali"},arr2[20],i,k=5;
    printf("please enter the the user name");
    gets(arr1[i]);
  for(i=0;i>20;i++)
    if(arr1[i]==arr2[i])
       if(i==19)
         printf("correct username");
       Continue;
    else
      printf("wrong username");
      break;
  return 0;
```

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