

LAB WORKSHEET – 5, using arrays

1) Write a JavaScript code to calculate the average of a list (array). Below is a Python code as an example.

```
list4=[1,2,3,4]
for i in range(0, 4):
    list4[i]=list4[i]*4
print list4[0:4]
```

2) Write a JavaScript code to display the name of the day at the specified index. You will create a list which includes array names. Below is a Python code as an example.

```
print "printing from a list\n"
list1=['a','t','w']
x= input('Enter the index of the array ')
print list1[x]
```

3) Run the C code below, and explain why it doesn't display the exact decimal number you expect. You may write it by Java (System.out.printf("%.20f", val);)

```
#include <stdio.h>
// floating point representation error
int main()
{ float i, t=0.0, a=1.0, b=10.0, c;

  for (i=0; i<100; i++)
    t = t + 0.1;

  printf("\n adding 0.1, 100 times t=% 10.20f",t);
  t=0.1;

  printf("\n just displaying 0.1 =% 10.20f",t);

  printf("\n result of 1/10 =% 10.20f",1/10);
  c=a/b;
  printf("\n c=% 10.20f",c);

  system("pause"); }
```

For the questions; you need explain how your preferred language behave while performing these algorithms. You need to make a detailed report for this worksheet. Also put save your codes as a word document.

- Students copied codes from other sources will get -100 point.