

22/11/2023

Write MALP for the following using Floating point arithmetic instructions

```
1. float no1 = 3.2  
   double no2 = 0.0002
```

Read the variables stored in memory and print it to the user

```
2. float no1;  
   double no2;  
   scanf("%f", &no1);  
   scanf("%lf", &no2);  
   printf("%f", no1);  
   printf("%lf", no2);
```

Get the values of the variables and print it to the user

3. Find the Area of a Circle ($\pi = 3.1415926535897924$). Get the radius value from the user. Assume it to be a single precision floating point value.

4. Convert from $^{\circ}\text{F}$ to $^{\circ}\text{C}$ ($^{\circ}\text{C} = ((5.0/9.0) * (\text{fahrenheit} - 32.0))$). Get the fahrenheit from the user. Assume it to be a double precision floating point value.

5. Find the output of polynomial $ax^2 + bx + c$ for user-input x . Assume x to be a single precision floating point value.

6. Find the sum of an array of single precision floating point values stored in memory