HW 2 -3600 Operating System

Submit your answers in Canvas as a pdf document on or before (02/20/2021).

Answer the below questions (${f 1}$ ar	nd 2) by giving a search	using Google (1 points)
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- 1. Parent of all processes in UNIX OS is ______.
- 2. Parent of all App Processes in Anroid OS is ______.
- 3. Consider a parent process that has forked a child in the code snippet below.

```
int count = 0;
ret = fork();
if(ret == 0) {
    printf("count in child=%d\n", count);
}
else {
    count = 1;
}
```

The parent executes the statement "count = 1" before the child executes for the first time. Now, what is the value of count printed by the code above? Justify your answer. (4 points)

4. Write a c program to implement threads. Accept an array of 40 integers, write a thread method named sum of array elements. Divide the array into 4 equal elements and call threads to find the sum of each part. Store the sum in a variable called 'arrays'. Print the sum in the main function. (8 points for prohram and 2 points for screenshot of output)

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