QUIZ 5 – Process Management

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Q1. Draw a binary to show the number of processes created by following code. What is the count of
number of processes created?
int main(void)
fork() && fork();
fork();
}
Q2. Consider the following code. What will be the value of variable x displayed from child processes and
parent process assuming that child processes terminates successfully.
int main(void)
{
        int x = 10, status, childpid;
        int pid1 = fork();
        if (pid1 != 0)
                childpid = wait(&status);
                x = x + WEXITSTATUS(status);
                printf("%d",x);
        }
        else
                int pid2 = fork();
                if (pid2 != 0)
                         childpid = wait(&status);
                         x = x + WEXITSTATUS(status);
                         printf("%d",x);
                         exit(x);
                else
                         x = x + 5;
                         printf("%d",x);
                         exit(x);
        }
}
```

- Q3. Write a master-slave implementation for the following situation.
 - 1. Main program accepts 5 filenames of text files as command line argument.
 - 2. You need to create 5 child processes and pass each of the 5 filenames as a command line argument to each of the 5 child process. For example first child will get the filename 1, second child will get filename 2 and so on.

3.	Child process will execute wc command for the filename provided and display the output from the wc command.