## Quiz#2

Q1: Describe the actions taken by a kernel to context-switch between pro- cesses. With diagram.

Give outputs of the following code snippets?

pids of the parent and child are 2600 and 2603, respectively.

```
#include <sys/types.h>
#include <stdio.h>
#include <unistd.h>
int main()
pid t pid, pidi;
 /* fork a child process */
 ; pid = fork();
 if (pid < 0) { /* error occurred */
  fprintf(stderr, "Fork Failed");
    return 1;
  else if (pid == 0) { /* child process */
 pidI = getpid();
printf("child: pid = %d",pid); /* A */
    printf("child: pid1 = %d",pid1); /* B */
  else { /* parent process */
    pid1 = getpid();
      printf("parent: pid = %d",pid); /* C */
printf("parent: pid1 = %d",pid1); /* D */
      wait (NULL);
    return O;
```

```
#include keys types.h>
 #include <stdio.h>
  #include <unistd.h>
 int main()
  pid t pid;
 /* fork a child process */
pid = fork();
 if (pid < 0) { /* error occurred */
    fprintf(stderr, "Fork Failed");
    return 1;</pre>
return 1;
}
slse if (pid == 0) { /* child process */
execip("/bin/ls","ls",NULL);
  execip("/bin/ls",
printf("LINE J");
return C:
```

How many processes are created in the below code.

```
mw many processes are created in the below code.
    #include <stdio.h>
    #include <unistd.h>

int main()
    int i;

for (i = 0; i < 4; i++)
    fork();

return 0;
}</pre>
```