**1)**

#include<unistd.h>

#include<stdlib.h>

#include<iostream>

#include<sys/types.h>

using namespace std;

int main()

{

pid\_t pid;

pid=fork();

if(pid==0)

{

//child process

cout<<"pid of child process----"<<getpid();

cout<<endl;

cout<<"ppid of child process----"<<getppid();

cout<<endl;

}

else if(pid>0)

{

//parent process

cout<<"pid of parent process----"<<getpid();

cout<<endl;

cout<<"ppid of parent process----"<<getppid();

cout<<endl;

}

else

{

cout<<"fork failed";

}

return 0;

}

**OUTPUT**

pid of parent process----28135

ppid of parent process----25714

pid of child process----28136

ppid of child process----28135

**2)**

#include<iostream>

#include<unistd.h>

#include<stdlib.h>

#include<sched.h>

using namespace std;

int main()

{

int ch;

ch=sched\_getscheduler(getpid());

switch(ch)

{

case SCHED\_OTHER:cout<<"Other Scheduling"<<endl;

break;

case SCHED\_RR:cout<<"Round Robin Scheduler"<<endl;

break;

case SCHED\_FIFO:cout<<"First In First Out"<<endl;

break;

}

return 0;

}

**OUTPUT:**

Other Scheduling

**3)**

#include<iostream>

#include<unistd.h>

#include<sched.h>

using namespace std;

int main()

{

int i;

i=sched\_setscheduler(getpid(),SCHED\_FIFO,0);

if(a==0)

{

cout<<"Priority Set";

}

else

{

cout<<"Priority Not Set";

}

return 0;

}

**OUTPUT:**

Priority Not Set

**4)**

Number of process=

3

Enter the process 0 Name = P1

Enter the process 0 Arrival time = 0

Enter the process 0 Burst time = 3

Enter the process 1 Name = P2

Enter the process 1 Arrival time = 2

Enter the process 1 Burst time = 5

Enter the process 2 Name = P3

Enter the process 2 Arrival time = 5

Enter the process 2 Burst time = 6

process no 1

Name P1

Arrival time 0

Burst time 3

Response time 0

Complete time 3

Waiting time 0

Turnaround time 3

process no 2

Name P2

Arrival time 2

Burst time 5

Response time 3

Complete time 8

Waiting time 1

Turnaround time 6

process no 3

Name P3

Arrival time 5

Burst time 6

Response time 8

Complete time 14

Waiting time 3

Turnaround time 9

Average waiting time = 1

Average turnaround time =6}

**OUTPUT**

Number of process=3

Enter the process 0 Name = P1

Enter the process 0 Arrival time = 0

Enter the process 0 Burst time = 3

Enter the process 1 Name = P2

Enter the process 1 Arrival time = 2

Enter the process 1 Burst time = 5

Enter the process 2 Name = P3

Enter the process 2 Arrival time = 5

Enter the process 2 Burst time = 6

process no 1

Name P1

Arrival time 0

Burst time 3

Response time 0

Complete time 3

Waiting time 0

Turnaround time 3

process no 2

Name P2

Arrival time 2

Burst time 5

Response time 3

Complete time 8

Waiting time 1

Turnaround time 6

process no 3

Name P3

Arrival time 5

Burst time 6

Response time 8

Complete time 14

Waiting time 3

Turnaround time 9

Average waiting time = 1

Average turnaround time =6