DC ASSIGNMENT –FILL IN THE BLANKS CODE

SIDDHARTHA BANERJEE 2017HT13125

filename: factorial.h

```
struct factorial_in
{
long int arg1;
};
struct factorial_out
{
long int res1;
};
```

```
program FACT_PROG{
version FACT_VERS{
factorial_out FACTORIALPROC(factorial_in) = 1; [0.5+0.5 = 1 mark]
}=1;
}=0x13451111;
```

---

filename: client.c (i.e the client program)

```
#include<stdlib.h>
#include<stdio.h>
#include" factorial.h"            [0.5 mark]
int main (int argc, char **argv)
{
CLIENT *cl;
factorial_in in;
factorial_out *out;
if (argc != 3) {
printf("client <localhost> <integer>");
exit (1);
}
cl = clnt_create (argv[1], FACT_PROG, FACT_VERS,"tcp");     [0.5 mark]
in.arg1 = atol(argv [2]);
```

```
if ((out=factorialproc 1(&in,cl))==NULL)       [ 1 mark]
{
printf("Error\n");
exit(1);
}
printf("Result %ld\n", out->resl); [1 mark]
exit(0);
}
```

---

filename: server.c (server file)

```
#include " factorial.h " [0.5 mark]
#include <stdio.h>
factorial_out *factorialproc_1_svc (factorial in *inp, struct
svc_req *rqstp) [1 mark]
{
static factorial out outp; [0.5 mark]
int i;
i = inp-> arg1; [0.5 mark]
outp.res1 = 1;
while(i !=0)
{
outp.res1 = outp.res1*i; [1 mark]
i--;
}
return (&outp);   [0.5 mark]
}
```