

Hotel billing program:

```
#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

void main()

{

int qty,op,amt=0;

abc:

clrscr();

puts("*****
*****");

puts("\t\t HOTEL  SAI BALAJI");

puts("\t\t AMEERPET  -  HYD");

puts("*****
*****");

puts("\t\t 1. Tea - 10/-");

puts("\t\t 2. Coffee / Milk / Boost / Lemon Tea / Water Bottle -
20/-");

puts("\t\t 3. Idly / Bonda / Plain dosa / Upma / Poha - 30/-");
```

```
puts("\t\t 4. Sambar idly / wada / Onion / Masala dosa / Poori -  
40/-");
```

```
puts("\t\t 5. Sambar wada / Veg Biryani / Panner dosa - 50/-");
```

```
puts("\t\t 6. Bill");
```

```
puts("\t\t 7. Cancel");
```

```
puts("\t\t 8. Close");
```

```
puts("*****  
*****");
```

```
printf("\t\t Enter Ur option[ ]\b\b"); scanf("%d",&op);
```

```
if(op>=1 && op<=5){printf("Enter Quantity: ");  
scanf("%d",&qty);}
```

```
switch(op)
```

```
{
```

```
case 1: amt+=qty*10;break;
```

```
case 2: amt+=qty*20;break;
```

```
case 3: amt+=qty*30;break;
```

```
case 4: amt+=qty*40;break;
```

```
case 5: amt+=qty*50;break;
```

```
case 6: printf("Ur billed amount:
```

```
%d",amt);amt=0;getch();break;
```

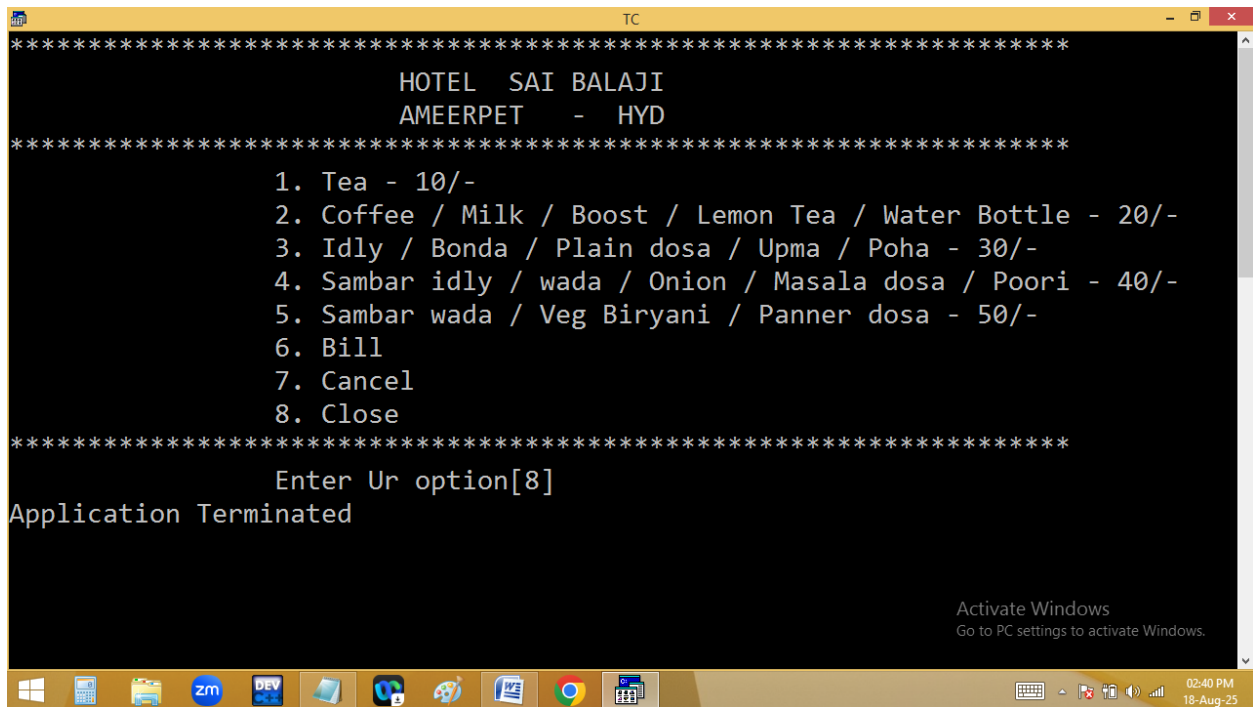
```
case 7: printf("Ur order cancelled");amt=0;getch();break;
```

```
case 8: printf("Application Terminated"); getch(); exit(0);
```

```
}
```

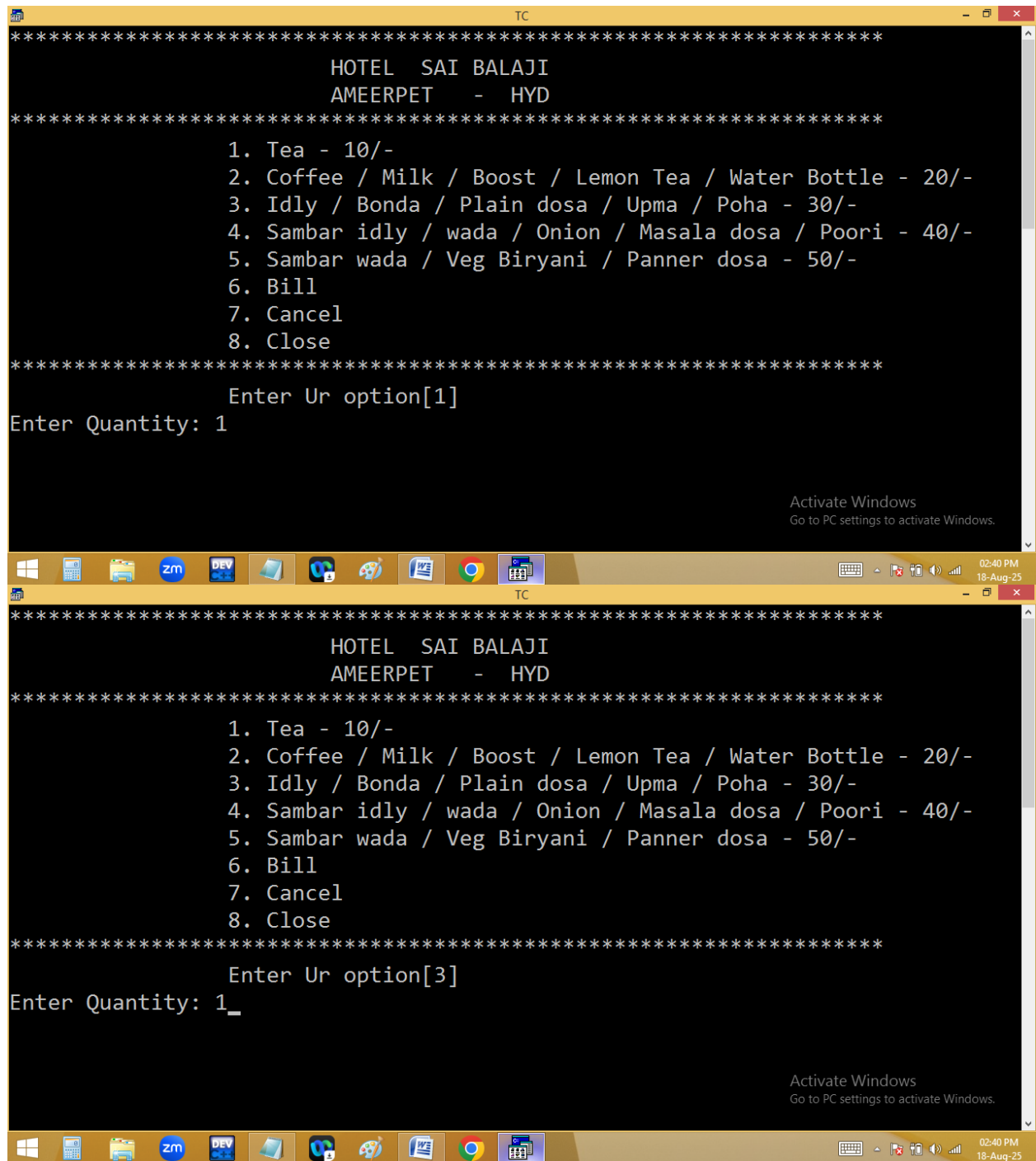
```
goto abc;
```

```
}
```



```
*****
                        HOTEL SAI BALAJI
                        AMEERPET - HYD
*****
1. Tea - 10/-
2. Coffee / Milk / Boost / Lemon Tea / Water Bottle - 20/-
3. Idly / Bonda / Plain dosa / Upma / Poha - 30/-
4. Sambar idly / wada / Onion / Masala dosa / Poori - 40/-
5. Sambar wada / Veg Biryani / Panner dosa - 50/-
6. Bill
7. Cancel
8. Close
*****
Enter Ur option[8]
Application Terminated

Activate Windows
Go to PC settings to activate Windows.
```



```
TC
*****
HOTEL SAI BALAJI
AMEERPET - HYD
*****
1. Tea - 10/-
2. Coffee / Milk / Boost / Lemon Tea / Water Bottle - 20/-
3. Idly / Bonda / Plain dosa / Upma / Poha - 30/-
4. Sambar idly / wada / Onion / Masala dosa / Poori - 40/-
5. Sambar wada / Veg Biryani / Panner dosa - 50/-
6. Bill
7. Cancel
8. Close
*****
Enter Ur option[6]
Ur billed amount: 40_

Activate Windows
Go to PC settings to activate Windows.
```

Enter two numbers : 2 5
OPERATIONS
+ . Add - . Sub * . Mul % . Mod / . Div ^ . Power E . Exit
Enter ur option[+] <div>sum = 7</div>

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<math.h>
```

```
void main()
```

```
{
```

```
float a,b;
```

```
char op;
```

abc:

```
clrscr();
```

```
puts("-----");
```

```
printf("Enter two numbers "); scanf("%f %f",&a, &b);
```

```
puts("-----");
```

```
puts("\t\t\t OPERATIONS");
```

```
puts("-----");
```

```
puts("\t\t\t + . Add");
```

```
puts("\t\t\t - . Sub");
```

```
puts("\t\t\t * . Mul");
```

```
puts("\t\t\t % . Mod");
```

```
puts("\t\t\t / . Div");
```

```
puts("\t\t\t ^ . Power");
```

```
puts("\t\t\t E . Exit");
```

```
puts("-----");
```

```
flushall();
```

```
printf("\t\t\t Enter Ur option[ ]\b\b"); scanf("%c",&op);
```

```
/*printf("\n\n\n\n\n\n\n\t\t\t\t\t\t\t");*/
```

```
gotoxy(50,18); /* x-col, y-row */
switch(op)
{
case '+': printf("Sum = %.2f",a+b);break;
case '-': printf("Sub = %.2f",a-b);break;
case '*': printf("Mul = %.2f",a*b);break;
case '%': printf("Mod = %.2f",fmod(a,b));break;
case '/': printf("Div = %.2f",a/b);break;
case '^': printf("Power = %.2f",pow(a,b));break;
case 'e': case 'E': return;
default: puts("Invalid choice");
}
getch();
goto abc;
}
```



```
TC
Enter two numbers 4 5
-----
                        OPERATIONS
-----
+ . Add
- . Sub
* . Mul
% . Mod
/ . Div
^ . Power
E . Exit
-----
Enter Ur option[E]

Activate Windows
Go to PC settings to activate Windows.
```

```
TC
Enter two numbers 3.3
1.2
-----
                        OPERATIONS
-----
+ . Add
- . Sub
* . Mul
% . Mod
/ . Div
^ . Power
E . Exit
-----
Enter Ur option[%]

Mod = 0.90

Activate Windows
Go to PC settings to activate Windows.
```

The screenshot shows a Turbo C++ (TC) console window with a black background and white text. At the top, it says "Enter two numbers 4 5". Below this is a dashed line, followed by the word "OPERATIONS" in the center. Another dashed line follows. Then, a list of operations is displayed: "+ . Add", "- . Sub", "* . Mul", "% . Mod", "/" . Div", "^ . Power", and "E . Exit". Below this list is another dashed line, followed by the prompt "Enter Ur option[\$]". At the bottom right, the text "Invalid choice" is displayed, with a smaller message below it: "Activate Windows Go to PC settings to activate Windows." The Windows taskbar is visible at the bottom of the screen.

```
Enter two numbers 4 5
-----
                        OPERATIONS
-----
+ . Add
- . Sub
* . Mul
% . Mod
/ . Div
^ . Power
E . Exit
-----
Enter Ur option[$]

Invalid choice
Activate Windows
Go to PC settings to activate Windows.
```

LOOPS / ITERATIONS / REPETITIVE STATEMENTS

2 Types.

- 1. Entry / pre controlled loops**
Eg: while, for
- 2. Exit / post controlled loops**
Eg: do...while

Finding factorial of given no?

n=3 → 3 factorial is → $3 * 2 * 1 = 6$