

## INTRODUCTION TO PROGRAMMING [RA18]

### COURSE PROJECT

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Developed By:

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## **PROBLEM STATEMENT:**

Develop a Menu-Driven C application to select & order mobile and print total bill(including GST) and pay bill amount through different payment modes like using credit card, debit card and cash on delivery(with some discounts offered for each mode). Application should repeat for multiple times and should print appropriate message when the entered option is not present in the list.

## **DESCRIPTION:**

This is program is a application of c language in developing a billing application of VIVO mobile store.This program is developed such that the person,who is running the program can understand and order easily without any difficulty.The source code is developed so that the person who reads the code can understand how the code is developed

## KNOWLEDGE REQUIRED TO DEVELOP THIS APPLICATION:

- Data Types
- Operators
- Conditional Statements (if, switch)
- Looping Statements (for, while / do while)
- Arrays (1-D array)
- Strings(table of strings, string handling functions)

## SOURCE CODE:

/\*Course Project: Program of a Billing System of Vivo mobile store, Concepts used - Data types, Operators,if(simple if), switch(nested switch), loops(do while, for), arrays(1D array) and strings(table of strings, string handling functions).\*/

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

```
main()
```

```
{
```

```
int ch=-1,sel,po,noi,i=0,count=0,j=0,x;
```

```
float totalcost[100]={0.0},discount,gst,totalbill=0.0;
```

```
char proceed,cc_details[20][40]={"N Bhavith","1234 4567  
7891","02/2023","1919","342"},cc_details1[20][40],cvv[3];
```

```
char dc_details[20][40]={"N Bhavith","3030 47679  
7801","04/2022","2020","241"};
```

```
do
```

```
{
```

```
printf("welcome to vivo mobile store:\n\n");
```

```
printf("press 1. for vivo Y series\n\n");
```

```
printf("press 2. for vivo V series\n\n");
```

```
printf("press 3. for vivo Z series\n\n");
```

```
printf("Make your own selection\n\n");
```

```
scanf("%d",&sel);
```

```
switch(sel)
```

```
{
```

```
case 1:
```

```
    printf("press 1. for vivo Y95[each unit cost is rs.11000]\n");
```

```
    printf("press 2. for vivo Y17[each unit cost is rs.13000]\n");
```

```
    printf("press 3. for vivo Y15[each unit cost is rs.12000]\n");
```

```
    printf("Make your sub selection\n\n");
```

```
    scanf("%d",&ch);
```

```
    printf("\n enter no. of mobiles you want to buy\n\n");
```

```
    scanf("%d",&noi);
```

```

switch(ch)
{
case 1:totalcost[i++]=noi*11000;
        count++;
        break;
case 2:totalcost[i++]=noi*13000;
        count++;
        break;
case 3:totalcost[i++]=noi*12000;
        count++;
        break;
default:
        printf("\n sorry... wrong selection... please selectamong listed
options");
}
break;
case 2:
        printf("\n\n press 1. for vivo V11[each unit cost is rs.15000]");
        printf("\n\n press 2. for vivo V15pro[each unit cost is rs.18000]");
        printf("\n\n press 3. for vivo v17pro[each unit cost is rs.20000]");
        printf("\n\n make your sub selection");

```

```
scanf("%d",&ch);
printf("\n\n enter no. of mobiles you want to buy\n");
scanf("%d",&noi);
switch(ch)
{
case 1:totalcost[i++]=noi*15000;
        count++;
        break;
case 2:totalcost[i++]=noi*18000;
        count++;
        break;
case 3:totalcost[i++]=noi*20000;
        count++;
        break;
default:printf("\n\n sorry... wrong selection...please select among listed
options");
}
break;
case 3:
printf("\n\n press 1. for vivo Z1[each unit cost is rs.14000]");
printf("\n\n press 2. for vivo Z1pro[each unit cost is rs.15500]");
```

```
printf("\n\n press 3. for vivo Z1 X[each unit cost is rs.17000]");  
  
printf("\n\n make your sub selection");  
  
scanf("%d",&ch);  
  
printf("\n\n enter no. of mobiles you want to buy");  
  
scanf("%d",&noi);  
  
switch(ch)  
{  
  
    case 1:totalcost[i++]=noi*14000;  
        count++;  
        break;  
  
    case 2:totalcost[i++]=noi*15500;  
        count++;  
        break;  
  
    case 3:totalcost[i++]=noi*17000;  
        count++;  
        break;  
  
    default:printf("\n sorry... wrong selection... please select among listed  
options");  
  
}  
  
}
```

```
printf("\n\n do you want to buy another mobile,if yes press y/Y");
scanf(" %c",&proceed);
}while(proceed=='y' || proceed=='Y');
for(i=0;i<count;i++)
{
printf("\n\n Bill amount for selected no. of mobiles %d= %f",
i+1,totalcost[i]);
    totalbill+=totalcost[i];
}
printf("\n\n Bill amount for all selected no. of mobiles=%f",totalbill);
printf("\n\n GST [12 percent]=%f",gst=totalbill*0.12);
printf("\n\n totalbill [including GST]=%f",totalbill=totalbill+gst);
printf("\n\n select payment method...\n");
printf("\n press 1. to pay using credit card-offers 10 percentdiscount=(-
)Rs.%.2f",totalbill*0.1);
printf("\n\n press 2. to pay using debit card-offers 6 percentdiscount=(-
)Rs.%.2f",totalbill*0.06);
printf("\n\n press 3. to pay using cash-offers 2 percentdiscount=(-
)Rs.%.2f",totalbill*0.02);
scanf("%d",&po);
switch(po)
{
```



```
case 1:discount=totalbill*0.1;

    printf("\n\n check your credit card details:");

    printf("\n\n card holder name:");

    printf("%s",cc_details[j]);

    j++;

    printf("\n\n credit card number:");

    printf("%s",cc_details[j]);

    j=j+3;

printf("\n\n enter credit card cvv[3 digits ex:123]:");

scanf("%s",cvv);

x=strcmp(cc_details[j],cvv);

    if(x==0)

printf("\n\n Bill paid=%f",totalbill-discount);

else

printf("\n\n entered details are wrong,please try again");

break;

case 2:discount=totalbill*0.06;

    printf("\n\n check your debit card details:");

    printf("\n\n card holder name:");

    printf("%s",dc_details[j]);

    j++;
```

```
    printf("\n\n credit card number:");

    printf("%s",dc_details[j]);

    j=j+3;

printf("\n\n enter credit card cvv [3 digits ex:123]:");

scanf("%s",cvv);

x=strcmp(dc_details[j],cvv);

    if(x==0)

printf("\n\n Bill paid=%f",totalbill=totalbill-discount);

else

printf("\n\n entered details are wrong,please try again");

break;

default:

    printf("\n\n sorry... wrong option selected...please select among the
available...");

}

printf("\n\n Thank you for visiting our store...have a nice day...visit
again...");

}
```

## RESULT:

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

3

press 1. for vivo Z1[each unit cost is rs.14000]

press 2. for vivo Z1pro[each unit cost is rs.15500]

press 3. for vivo Z1 X[each unit cost is rs.17000]

make your sub selection

2

enter no. of mobiles you want to buy

2

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

2

press 1. for vivo V11[each unit cost is rs.15000]

press 2. for vivo V15pro[each unit cost is rs.18000]

press 3. for vivo v17pro[each unit cost is rs.20000]

make your sub selection

3

enter no. of mobiles you want to buy

1

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

1

press 1. for vivo Y95[each unit cost is rs.11000]

press 2. for vivo Y17[each unit cost is rs.13000]

press 3. for vivo Y15[each unit cost is rs.12000]

Make your sub selection

2

enter no. of mobiles you want to buy

2

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

3

press 1. for vivo Z1[each unit cost is rs.14000]

press 2. for vivo Z1pro[each unit cost is rs.15500]

press 3. for vivo Z1 X[each unit cost is rs.17000]

make your sub selection

3

enter no. of mobiles you want to buy

3

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

1

press 1. for vivo Y95[each unit cost is rs.11000]

press 2. for vivo Y17[each unit cost is rs.13000]

press 3. for vivo Y15[each unit cost is rs.12000]

Make your sub selection

1

enter no. of mobiles you want to buy

1

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

1

press 1. for vivo Y95[each unit cost is rs.11000]

press 2. for vivo Y17[each unit cost is rs.13000]

press 3. for vivo Y15[each unit cost is rs.12000]

Make your sub selection

1

enter no. of mobiles you want to buy

2

do you want to buy another mobile,if yes press y/Y

y

welcome to vivo mobile store:

press 1. for vivo Y series

press 2. for vivo V series

press 3. for vivo Z series

Make your own selection

1

press 1. for vivo Y95[each unit cost is rs.11000]

press 2. for vivo Y17[each unit cost is rs.13000]

press 3. for vivo Y15[each unit cost is rs.12000]

Make your sub selection

11

enter no. of mobiles you want to buy

1

sorry... wrong selection... please selectamong listed options

do you want to buy another mobile,if yes press y/Y

n

Bill amount for selected no. of mobiles 1= 31000.000000

Bill amount for selected no. of mobiles 2= 20000.000000

Bill amount for selected no. of mobiles 3= 26000.000000

Bill amount for selected no. of mobiles 4= 51000.000000

Bill amount for selected no. of mobiles 5= 11000.000000

Bill amount for selected no. of mobiles 6= 22000.000000

Bill amount for all selected no. of mobiles=161000.000000

GST [12 percent]=19320.000000

totalbill [including GST]=180320.000000

select payment method...

press 1. to pay using credit card-offers 10 percentdiscount=(-)Rs.18032.00

press 2. to pay using debit card-offers 6 percentdiscount=(-)Rs.10819.20

press 3. to pay using cash-offers 2 percentdiscount=(-)Rs.3606.401

check your credit card details:

card holder name:N Bhavith

credit card number:1234 4567 7891

enter credit card cvv[3 digits ex:123]:342

Bill paid=162288.000000

Thank you for visiting our store...have a nice day...visit again...

-----

Process exited after 142.5 seconds with return value 0

Press any key to continue . . .