

Assignment 2:

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Q1) Discount on price

```
#include<stdio.h>
int main(){
    int price = 1000;
    int discount;
    printf("Enter discount percentage Example: 20\n");
    scanf("%d", &discount);
    printf("Your net price to be paid is:  %d", price -
((price*discount)/100));
    return 0;
}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

● PS D:\Firstbit Solutions> cd "d:\Firstbit Solutions\C Programming\A
OnPrie.c -o 1_discountOnPrie } ; if ($?) { .\1_discountOnPrie }
Enter discount percentage Example: 20
10
Your net price to be paid is:  900
○ PS D:\Firstbit Solutions\C Programming\Assignments\Assignment 2>
```

Q2) Find Greatest of 3 using nested if

```
#include<stdio.h>
int main(){
    int a,b,c;
    printf("Enter the value of a: ");
    scanf("%d",&a);
    printf("Enter the value of b: ");
    scanf("%d",&b);
    printf("Enter the value of c: ");
    scanf("%d",&c);

    if(a>b){
        if (a>c)
        {
            printf("A is Greatest of three.");
        }
        else
        {
            printf("C is Greatest of three.");
        }
    } else {
        if(b>c){
            printf("B is Greatest of three.");
        }
    }
}
```

```

    }
    else {
        printf("C is Greatest of three.");
    }
}
return 0;
}

```

```

PS D:\Firstbit Solutions> cd "d:\Firstbit Solutions\C Programming\Ass
nnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
Enter the value of a: 10
Enter the value of b: 25
Enter the value of c: 15
B is Greatest of three.
PS D:\Firstbit Solutions\C Programming\Assignments\Assignment 2> |

```

Q3) Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.

```

#include <stdio.h>
int main()
{
    int num1, num2;
    char operator;
    printf("Enter the value of number 1: ");
    scanf("%d", &num1);
    printf("Enter the value of number 2: ");
    scanf("%d", &num2);

    printf("-----Enter your choice :-----\n");
    printf("For Addition enter '+'\n");
    printf("For Subtraction enter '-'\n");
    printf("For Multiplication enter '*'\n");
    printf("For Divivson enter '/'\n");
    printf("For Modulo enter '%'\n");

    fflush(stdin);
    scanf("%c", &operator);

    if (operator== '+')
    {
        printf("%d %c %d = %d", num1, operator, num2, num1 + num2);
    }
    else if (operator== '-')
    {
        printf("%d %c %d = %d", num1, operator, num2, num1 - num2);
    }
    else if (operator== '*')
    {
        printf("%d %c %d = %d", num1, operator, num2, num1 * num2);
    }
}

```

```

else if (operator== '/')
{
    printf("%d %c %d = %d", num1, operator, num2, num1 / num2);
}
else if (operator== '%')
{
    printf("%d %c %d = %d", num1, operator, num2, num1 % num2);
}
return 0;
}

```

```

PS D:\Firstbit Solutions> cd "d:\Firstbit Solutions\C Programming\
nnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFi
Enter the value of number 1: 10
Enter the value of number 2: 5
-----Enter your choice :-----
For Addition enter '+'
For Subtraction enter '-'
For Multiplication enter '*'
For Divivson enter '/'
For Modulo enter '%'
*
10 * 5 = 50
PS D:\Firstbit Solutions\C Programming\Assignments\Assignment 2>

```

Q4) Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice, then based on that perform the desired operations.

```

#include <stdio.h>
int main()
{
    int choiceNum;
    printf("----Choices-----\n");
    printf("Enter 1 for calculate Even odd\n");
    printf("Enter 2 for calculate Salary\n");
    scanf("%d", &choiceNum);

    if (choiceNum == 1)
    {
        int num;
        printf("Enter number to check weather number is even or odd.\n");
        scanf("%d", &num);
        num % 2 ? printf("%d is Odd Number\n", num) : printf("%d is Even
number\n", num);
    }
    else
    {
        float basic;
        printf("Enter Basic salary\n");
        scanf("%f", &basic);
        float salary;
        if (basic <= 5000)

```

```

    {
        salary = basic + (basic * 10) / 100 + (basic * 20) / 100 + (basic
* 30) / 100;
    }
    else
        salary = basic + (basic * 15) / 100 + (basic * 25) / 100 + (basic
* 30) / 100;

    printf("Salary is %.2f\n", salary);
}

return 0;
}

```

```

PS D:\Firstbit Solutions> cd "d:\Firstbit Solutions\C Programming\A
User.c -o 4_menuFromUser } ; if ($?) { .\4_menuFromUser }
----Choices-----
Enter 1 for calculate Even odd
Enter 2 for calculate Salary
2
Enter Basic salary
6500
Salary is 11050.00
PS D:\Firstbit Solutions\C Programming\Assignments\Assignment 2>

```

Q5) Accept the price from user. Ask the user if he is a student (user may say yes or no). If he is a student and he has purchased more than 500 then discount is 20% otherwise discount is 10%. But if he is not a student then if he has purchased more than 600 discount is 15% otherwise there is not discount.

```

#include <stdio.h>

int main()
{
    char isStudent;
    float price;
    int discount;
    printf("\nEnter price: ");
    scanf("%f", &price);

    printf("If your are student than press 'Y', else press 'N'\n");
    fflush(stdin);
    scanf("%c", &isStudent);

    // check validation
    if(isStudent=='y' || isStudent=='Y'){
        discount = price > 500 ? 20 : 10;
    }
    else if(isStudent=='n' || isStudent=='N'){
        discount = price > 600 ? 15 : 0;
    }
}

```

```

else{
    printf("Invalid choice for student eligibility\n");
    return 0;
}

printf("You got %d%% Discount\n", discount);
printf("You have to pay %.2f rs.\n", price - (price * discount) / 100);

return 0;
}

```

```

PS D:\Firstbit Solutions> cd "d:\Firstbit Solutions\C Programming\
BasedOnStudent.c -o 5_discountBasedOnStudent } ; if ($?) { .\5_dis
C
Enter price: 600
If your are student than press 'Y', else press 'N'
Y
You got 20% Discount
You have to pay 480.00 rs.
PS D:\Firstbit Solutions\C Programming\Assignments\Assignment 2>

```