**Unique ID: E0222054**

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**Module II IF ELSE Assignment**

Q.1 Write a C program to accept two integers and check whether they are equal or not

CODE:

#include<stdio.h>

#include <stdlib.h>

int main()

{

    int num1, num2;

    printf("Input the values for Number1 and Number2 : ");

    scanf("%d %d", &num1, &num2);

    if (num1 == num2)

        {

            printf("\nNumber1 and Number2 are equal");

        }

    else

        {

            printf("\nNumber1 and Number2 are not equal");

        }

    return 0;

}

**OUTPUT:**

**Input the values for Number1 and Number2 : 4**

**5**

**Number1 and Number2 are not equal**

Q.2 Write a program to find the biggest number (accept two integer number from user

CODE:

#include <stdio.h>

int main()

{

    int num1, num2;

    printf("Enter any two numbers: \n");

    scanf("%d %d", &num1, &num2);

    if(num1 > num2)

    {

        printf("%d is Largest\n", num1);

    }

    else if (num2 > num1)

    {

        printf("%d is Largest\n", num2);

    }

    else

    {

    printf("Both are Equal\n");

    }

    return 0;

}

OUTPUT:

**Enter any two numbers:**

**5**

**15**

**15 is Largest**

Q.3 Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division

Test Data:

Input the Roll Number of the student :784

Input the Name of the Student: James

Input the marks of Physics, Chemistry and Computer Application: 70 80 90

Expected Output:

Roll No: 784

Name of Student

Name of Student: James

Marks in Physics: 70

Marks in Chemistry: 80

Marks in Computer Application: 90

Total Marks = 240

Percentage = 80.00

Division

First class greater than equal to 60

Second class between 60 and 45

Pass between 45 and 36

Fail less than 35

CODE:

#include <stdio.h>

#include <stdlib.h>

#include<string.h>

int main()

{

    int rollnum,phy,che,compappl,total;

    float percent;

    char name[20],div[10];

    printf("Input the Roll Number of the student :");

    scanf("%d",&rollnum);

    printf("Input the Name of the Student :");

    scanf("%s",name);

    printf("Input  the marks of Physics, Chemistry and Computer Application : ");

    scanf("%d%d%d",&phy,&che,&compappl);

    total = phy+che+compappl;

    percent = total/3.0;

    if (percent>=60)

     strcpy(div,"First");

    else

    if (percent<60&&percent>=48)

        strcpy(div,"Second");

    else

        if (percent<48&&percent>=36)

        strcpy(div,"Pass");

         else

        strcpy(div,"Fail");

       printf("\nRoll No : %d",rollnum);

       printf("\nName of Student : %s",name);

       printf("\nMarks in Physics : %d",phy);

       printf("\nMarks in Chemistry : %d",che);

       printf("\nMarks in Computer Application : %d",compappl);

       printf("Total Marks = %d",total);

       printf("\nPercentage = %.2f",percent);

       printf("\nDivision = %s\n",div);

}

OUTPUT:

**Input the Roll Number of the student :45**

**Input the Name of the Student: Arjun**

**Input the marks of Physics, Chemistry and Computer Application : 45**

**56**

**45**

**Roll No: 45**

**Name of Student: Arjun**

**Marks in Physics: 45**

**Marks in Chemistry: 56**

**Marks in Computer Application: 45Total Marks = 146**

**Percentage = 48.67**

**Division = Second**

Q.4 Write a C program to check whether a character is an alphabet, digit or special character

Test Data:

@

Expected Output:

This is a special character.

CODE:

#include <stdio.h>

int main()

{

char character;

printf("Enter Anything: ");

scanf("%c", &character);

    if((character >= 'a' && character <= 'z') || (character >= 'A' && character <= 'Z'))

    {

        printf("'%c' is Alphabet.", character);

    }

    else if(character >= '0' && character <= '9')

    {

        printf("'%c' is Digit.", character);

    }

    else

    {

        printf("'%c' is Special Character.", character);

    }

    return 0;

}

OUTPUT:

**Enter Anything: @**

**'@' is Special Character.**

Q.5 Write a C program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Test Data: -5

Expected Output:

The value of n = -1

CODE:

#include<stdio.h>

#include<conio.h>

int main()

{

    int m;

    printf("Enter a Number:");

    scanf("%d",&m);

    if(m>0)

        printf("The value of n = 1 ");

    if(m==0)

        printf("The value of n = 0");

    if(m<0)

        printf("The value of n = -1");

}

OUTPUT:

**Enter a Number: -5**

**The value of n = -1**