1. **/\*Write and execute a C program to perform a desired arithmetic operation using switch statement .Declare choice as char data type and check whether the divisor is zero, if divisor is zero print “Divide by Zero error”. \*/**

#include<stdio.h>

int main()

{

float a,b,res;

char ch;

printf("enter choice");

scanf("%c",&ch);

printf("enter two values \n");

scanf("%f%f",&a,&b);

switch(ch)

{

case '+':

res=a+b;

break;

case '-':

{

res=a-b;

break;

}

case '\*':

{

res=a\*b;

break;

}

case '/':

{

if(b!=0)

{

res=a/b;

break;

}

else

{

printf("denomintor is 0");

}

break;

}

default:

{

printf("entered choice not found");

}

}

printf("resultant is %f",res);

}

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1. **/\*Write and execute a C program to read numbers using keyboard and find the area of triangle ,square, circle and rectangle using switch statement and display the result. \*/**

#include<stdio.h>

#define PI 3.147

void main()

{

float radius, length, breadth;

float base, height, area;

int choice;

printf("Enter\n1. To find area of triangle\n2. To find area of Square\n

3. To find area of circle\n4. To find area of rectangle\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Enter base and height of a triangle\n");

scanf("%f %f", &base, &height);

area = (1.0/2) \* base \* height;

printf("Area of Triangle:\t%f\n", area);

break;

case 2:

printf("Enter length of a Square\n");

scanf("%f", &length);

area = length \* length;

printf("Area of Square:\t%f\n", area);

break;

case 3:

printf("Enter the radius of a Circle\n");

scanf("%f", &radius);

area = PI \* radius \* radius;

printf("Area of Circle:\t%f\n", area);

break;

case 4:

printf("Enter the length and breadth of a Rectangle\n");

scanf("%f %f", &length, &breadth);

area = length \* breadth;

printf("Area of Rectangle:\t%f\n", area);

break;

default:

printf("Invalid Choice\n");

}

}

1. **/\* Write and execute a C program to print branch name for appropriate section name using switch statement. Declare choice as char data type and print the result\*/**

#include<stdio.h>

main()

{

char choice,a,b,A,B;

printf("Enter your section name to find the branch \n");

scanf("%c",&choice);

switch(choice)

{

case 'a': case 'A':case 'b': case 'B':

printf("\nComputer Science Engineering ");

break;

case 'c': case 'C':case 'd': case 'D':

printf("\nElectronics and Communication Engineering");

break;

case 'e': case 'E':

printf("\nElectronics and Instrumentation Engineering");

break;

case 'f': case 'F':

printf("\nChemical Engineering ");

break;

case 'g': case 'G':

printf("\nMedical Electronics ");

break;

case 'h': case 'H':case 'i': case 'I':

printf("\nInformation Science and Engineering");

break;

case 'j': case 'J':case 'k': case 'K':case 'l': case 'L':

printf("\nMechanical Engineering");

break;

case 'm': case 'M':

printf("\nIndustrial and Engineering Management ");

break;

case 'n': case 'N':

printf("\nElectronics & Telecommunication Engineering ");

break;

case 'r': case 'R':

printf("\nBiotechnology Engineering ");

break;

case 'o': case 'O':case 'p': case 'P':

printf("\nCivil Engineering ");

break;

case 'q': case 'Q':

printf("\nElectrical and Electronics Engineering ");

break;

default:

printf("Invalid Choice\n");

}

}

1. **/\*Write and execute a C program to read a number using keyboard and print the Roman representation for a given range of numbers 1 to 5 using switch statement\*/**

#include<stdio.h>

#include<stdlib.h>

int main()

{

int num, rem;

printf("Enter a number: ");

scanf("%d", &num);

printf("Roman numerals: ");

switch(num)

{

case 1: printf("I");

break;

case 2: printf("II");

break;

case 3: printf("III");

break;

case 4: printf("IV");

break;

case 5: printf("V");

break;

default: printf("Wrong choice!");

exit(0);

}

return 0;

}