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Batch number:23.1

Practical 04

01.

#include<stdio.h>

int main()

{

int number;

printf("Enter an integer:");

scanf("%d",&number);

if(number%2==0)

{

printf("%d is even.\n",number);}

else

{

printf("%d is odd.\n",number);

}

}

01(2).

#include<stdio.h>

int main()

{

int number;

printf("Enter an integer:");

scanf("%d",&number);

switch(number%2)

{

case 0:

printf("%d is even number \n",number);break;

case 1:

printf("%d is odd number\n",number);break;

}

}

02.

#include <stdio.h>

int main() {

int choice;

float no1, no2, result;

printf("Menu-Driven Calculator\n");

printf("1. Addition\n");

printf("2. Subtraction\n");

printf("3. Multiplication\n");

printf("4. Division\n");

printf("Enter your choice: ");

scanf("%d", &choice);

printf("Enter the first number: ");

scanf("%f", &no1);

printf("Enter the second number: ");

scanf("%f", &no2);

if (choice == 1) {

result = no1 + no2;

printf("Result: %.2f\n",result);

} else if (choice == 2) {

result = no1 - no2;

printf("Result: %.2f\n",result);

} else if (choice == 3) {

result = no1 \* no2;

printf("Result: %.2f\n",result);

} else if (choice == 4) {

if (no2 != 0) {

result = no1 / no2;

printf("Result: %.3f\n",result);

}

} else {

printf("Invalid choice.\n");

}

}

03.

#include<stdio.h>

int main()

{

int choice;

float radius, PI = 3.14159;

printf("Menu:\n");

printf("1. Calculate the circumference of a circle\n");

printf("2. Calculate the area of a circle\n");

printf("3. Calculate the volume of a sphere\n");

printf("Enter your choice (1-3): ");

scanf("%d", &choice);

printf("Enter the radius: ");

scanf("%f", &radius);

switch (choice) {

case 1: {

float circumference = 2 \* PI \* radius;

printf("Circumference: %.2f\n", circumference);

break;

}

case 2: {

float area = PI \* radius \* radius;

printf("Area: %.2f\n", area);

break;

}

case 3: {

float volume = (4.0 / 3.0) \* PI \* (radius, 3);

printf("Volume: %.2f\n", volume);

break;

}

default:

printf("Invalid choice\n");

break;

}

}

04.

#include<stdio.h>

int main()

{

char ch;

printf("Enter a character: ");

scanf(" %c", &ch);

switch (ch) {

case 'a':

case 'A':

case 'e':

case 'E':

case 'i':

case 'I':

case 'o':

case 'O':

case 'u':

case 'U':

printf("%c is a vowel.\n", ch);

break;

default:

printf("%c is not a vowel.\n", ch);

break;

}

}

05.

#include<stdio.h>

int main()

{

int month;

printf("Enter the month number (1-12): ");

scanf("%d", &month);

int days;

switch (month) {

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:

days = 31;

break;

case 4:

case 6:

case 9:

case 11:

days = 30;

break;

case 2:

days = 28;

break;

default:

printf("Invalid month number.\n");

return 0;

}

printf("Total number of days in the month: %d\n", days);

}