Practical 04

1. #include <stdio.h>

int main()

{

int number;

printf(“Enter an integer”);

scanf(“%d”,is even.\n, number);

if (number % 2== 0)

{

printf(“%d is even.\n”,number);

}

else

{

printf (“%d is odd.\n”, number);

}

return 0;

}

#include<stdio.h>

int main()

{

int number;

printf(“Enter an integer”);

scanf(“%d”, &number);

switch (number % 2)

{

case 0:

printf(“%d is even.\n”, number);

break;

case 1:

printf (“%d is odd.\n”,number);

break;

default:

printf(“Invalid input.\n”);

break;

}

return 0;

}

1. #include <stdio.h>

Int main()

{

char operator;

double num1,num2,result;

printf(“Enter operator (+,-,\*,/):”);

scanf(“%c”, &operator);

printf(“Enter two numbers:”);

scanf(“%d %d, &num1,&num2);

switch (operator)

{

case ‘+’:

result = num1 + num2;

break;

case ‘-‘:

result = num1 – num2;

break;

case ‘/’:

if(num2 !=0)

{

result= num1/num2;

}

else

{

printf(“Error: cannot divide by zero.\n”);

return 1;

}

break;

default:

printf(“Invalid operator.\n”);

return1;

}

printf(“Result: %d\n”, result);

return 0;

}

1. #include <stdio.h>

#include<math.h>

Int main()

{

int choice;

double radius, result;

printf(“Select an option\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”);

scanf(“%d”, &choice);

printf(“Enter the radius”);

scanf(%d”, &radius);

switch (choice) {

case 1:

result = 2 \* PI \* radius;

printf("Circumference of the circle: %lf\n", result);

break;

case 2:

result = PI \* pow(radius, 2);

printf("Area of the circle: %lf\n", result);

break;

case 3:

result = (4.0 / 3.0) \* PI \* pow(radius, 3);

printf("Volume of the sphere: %lf\n", result);

break;

default:

printf("Invalid choice.\n");

break;

}

Return 0;

}

1. #include <stdio.h>

int main()

{

char letter;

printf(“Enter a letter”);

scanf(“%c”, &letter);

switch (letter)

{

case ‘a’:

case ‘e’:

case ‘i’:

case ‘o’:

case ‘u’:

case ‘A’:

case ‘E’:

case ‘I’:

case ‘O’:

case ‘U’:

printf(“%c is a vowel.\n”, letter);

break;

default:

printf(“%c is not a vowel.\n”, letter);

break;

}

Return 0;

}

1. #include <stdio.h>

int main() {

int month, days;

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

scanf("%d", &month);

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 1; // Exit with an error code

}

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

return 0;

}