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**Practical 04**

(1) #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);

}

switch (number % 2)

{

case 0:

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

break;

case 1:

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

break;

}

return 0;

}

(2) #include <stdio.h>

int main() {

int choice, num1, num2;

printf("Menu:\n");

printf("1. Addition\n");

printf("2. Subtraction\n");

printf("3. Multiplication\n");

printf("4. Division\n");

printf("Enter your choice (1-4): ");

scanf("%d", &choice);

printf("Enter two numbers: ");

scanf("%d %d", &num1, &num2);

switch (choice) {

case 1:

printf("Sum: %d\n", num1 + num2);

break;

case 2:

printf("Difference: %d\n", num1 - num2);

break;

case 3:

printf("Product: %d\n", num1 \* num2);

break;

case 4:

if (num2 != 0) {

printf("Quotient: %f\n", (float)num1 / num2);

} else

{

printf("Error: Division by zero\n");

}

break;

default:

printf("Invalid choice\n");

break;

}

return 0;

}

(3) #include <stdio.h>

#define PI 3.14159

int main() {

int choice;

float radius;

printf("Menu:\n");

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

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

printf("3. Calculate 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:

printf("Circumference: %f\n", 2 \* PI \* radius);

break;

case 2:

printf("Area: %f\n", PI \* radius \* radius);

break;

case 3:

printf("Volume: %f\n", 4.0 / 3.0 \* PI \* radius \* radius \* radius);

break;

default:

printf("Invalid choice\n");

break;

}

return 0;

}

(4) #include <stdio.h>

int main() {

char ch;

printf("Enter a character: ");

scanf(" %c", &ch);

switch (ch) {

case 'a':

case 'e':

case 'i':

case 'o':

case 'u':

case 'A':

case 'E

**Practical 03**

(1)#include <stdio.h>

int main() {

int x, y;

printf("Enter the first integer: ");

scanf("%d", &x);

printf("Enter the second integer: ");

scanf("%d", &y);

if (x > y) {

printf("The maximum number is: %d\n", x);

} else if (y > x) {

printf("The maximum number is: %d\n", y);

} else {

printf("Both numbers are equal.\n");

}

return 0;

}

(2) #include <stdio.h>

int main() {

int num1, num2, num3;

printf("Enter three integer numbers: ");

scanf("%d %d %d", &num1, &num2, &num3);

int largest = num1;

int smallest = num1;

if (num2 > largest)

largest = num2;

if (num3 > largest)

largest = num3;

if (num2 < smallest)

smallest = num2;

if (num3 < smallest)

smallest = num3;

printf("Largest number: %d\n", largest);

printf("Smallest number: %d\n", smallest);

return 0;

}

(3) #include <stdio.h>

int main() {

char employeeName[100];

float basicSalary, increment, newSalary;

printf("Enter employee name: ");

scanf("%s", employeeName);

printf("Enter basic salary: ");

scanf("%f", &basicSalary);

if (basicSalary < 5000)

increment = 0.05 \* basicSalary;

else if (basicSalary >= 5000 && basicSalary < 10000)

increment = 0.10 \* basicSalary;

else

increment = 0.15 \* basicSalary;

newSalary = basicSalary + increment;

printf("Employee: %s\n", employeeName);

printf("New Salary: %.2f\n", newSalary);

return 0;

}

(4) #include <stdio.h>

int main() {

float radius;

printf("Enter the radius of the circle: ");

scanf("%f", &radius);

float diameter = 2 \* radius;

float circumference = 2 \* 3.14159 \* radius;

float area = 3.14159 \* radius \* radius;

printf("Diameter: %f\n", diameter);

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

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

return 0;

}

(5) #include <stdio.h>

int main() {

int num1, num2;

printf("Enter two integers: ");

scanf("%d %d", &num1, &num2);

if (num1 % num2 == 0)

printf("%d is a multiple of %d\n", num1, num2);

else

printf("%d is not a multiple of %d\n", num1, num2);

return 0;

}

(6) #include <stdio.h>

int main() {

printf("Integer Equivalents:\n");

printf("Uppercase Letters:\n");

printf("A: %d\n", 'A');

printf("B: %d\n", 'B');

printf("C: %d\n", 'C');

printf("Lowercase Letters:\n");

printf("a: %d\n", 'a');

printf("b: %d\n", 'b');

printf("c: %d\n", 'c');

printf("Digits:\n");