Sulakshi Sewmini Samarakoon 29878

Practical 04

```
#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);
    }

    return 0;
}
```

Re-write the above program using a switch statement instead of an If-Else statement!

```
#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:
```

```
break;
  }
  return 0;
}
        #include <stdio.h>
        int main() {
          int choice;
          float num1, num2, result;
          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("%f %f", &num1, &num2);
           switch (choice) {
             case 1:
                result = num1 + num2;
                printf("Result: %.2f\n", result);
                break;
             case 2:
                result = num1 - num2;
                printf("Result: %.2f\n", result);
                break;
             case 3:
                result = num1 * num2;
                printf("Result: %.2f\n", result);
```

break;

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

2)

```
case 4:
       if (num2 != 0) {
          result = num1 / num2;
          printf("Result: %.2f\n", result);
       } else {
          printf("Error: Division by zero is not allowed.\n");
       }
       break;
     default:
       printf("Invalid choice.\n");
  }
}
#include <stdio.h>
#define PI 3.14159
int main() {
  int choice;
  float radius, result;
  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:
       result = 2 * PI * radius;
       printf("Circumference: %.2f\n", result);
       break;
     case 2:
       result = PI * radius * radius;
```

3)

```
printf("Area: %.2f\n", result);
                                 break;
                              case 3:
                                 result = (4.0 / 3.0) * PI * radius * radius * radius;
                                 printf("Volume: %.2f\n", result);
                                 break;
                              default:
                                 printf("Invalid choice.\n");
                           }
                           return 0;
                         }
4)
                         #include <stdio.h>
                         int main() {
                           char vowal;
                           printf("Enter a character: ");
                           scanf("%c", &vowal);
                           switch (vowal)
                           {
                              case 'a':
                                 printf("vowel\n");break;
                              case 'e':
                                 printf("vowel\n");break;
                              case 'i':
                                 printf("vowel\n");break;
                              case 'o':
                                 printf("vowel\n");break;
                              case 'u':
                                 printf("vowel\n");break;
                              default:
                                 printf("not a vowel!\n");break;
                         }
```

}

```
#include <stdio.h>
int main() {
  int month;
  printf("Enter the month number (1-12): ");
  scanf("%d", &month);
  switch (month) {
    case 1:
       printf("January has 31 days.\n");break;
    case 2:
       printf("February has 28 days.\n");break;
    case 3:
       printf("March has 31 days.\n");break;
    case 4:
       printf("April has 30 days.\n");break;
    case 5:
       printf("May has 31 days.\n");break;
    case 6:
       printf("June has 30 days.\n");break;
    case 7:
       printf("July has 31 days.\n");break;
    case 8:
       printf("August has 31 days.\n");break;
    case 9:
       printf("September has 30 days.\n");break;
    case 10:
       printf("October has 31 days.\n");break;
    case 11:
       printf("November has 30 days.\n");break;
    case 12:
       printf("December has 31 days.\n");break;
       printf("Invalid month number.\n");break;
  }
  return 0; }
```