DD Samarasinha – 24912

Practical 4

```
1.
    int main()
    //Question 1 (part 1)
     int num;
     printf("Enter number: ");
     scanf("%d", &num);
     if (num%2 == 0)
         printf("%d is even\n", num);
     else
         printf("%d is odd\n", num);
     //Question 1 (part 2)
     int numero, mod;
     printf("Enter number: ");
     scanf("%d", &numero);
     mod = numero%2;
     switch (mod)
         case 0:
             printf("Even\n");
             break;
         default:
             printf("Odd");
 }
```

```
2.
    int main()
      int num1, num2;
      float result;
      char op;
      printf("Enter number 1: ");
      scanf("%d", &num1);
      printf("Enter operator\n + Addition\n - Subtraction\n * Multiplication\n / Division\n: ");
      scanf(" %c", &op);
      printf("Enter number 2: ");
      scanf("%d", &num2);
      switch(op)
          case '+':
             result = num1 + num2;
             break;
          case '-':
              result = num1 - num2;
             break;
          case '*':
              result = num1 * num2;
              break;
          case '/':
             result = (float) num1 / num2;
             break;
          default:
             printf("Invalid operator");
              return 0;
      }
      if (op == '/')
          printf("%d %c %d = %.2f", num1, op, num2, result);
      else
         printf("%d %c %d = %.Qf", num1, op, num2, result);
      return 0;
```

```
3.
   int main()
    double pi=3.14159, r, calc;
    int cav;
    printf("Choose calculation needed\n 1) Circumference\n 2) Area\n 3) Volume\n:");
    scanf("%d", &cav);
    switch (cav)
        case 1:
            printf("Enter radius: ");
            scanf("%lf", &r);
            calc = 2*pi*r;
            printf("Circumference of the circle is %.21f", calc);
            break;
        case 2:
            printf("Enter radius: ");
            scanf("%lf", &r);
            calc = pi*(r*r);
            printf("Area of the circle is %.2lf", calc);
            break;
        case 3:
            printf("Enter radius: ");
            scanf("%lf", &r);
            calc = 4/3.0*(pi*(r*r*r));
            printf("Volume of the sphere is %.21f", calc);
        default:
            printf("Invalid option");
            return 0;
   }
}
```

```
4.
      int main()
  {
      char inp;
       printf("Enter character: ");
       scanf(" %c", &inp);
       switch(inp)
           case 'a':
           case 'A':
               printf("Vowel");
               break;
           case 'e':
           case 'E':
              printf("Vowel");
               break;
           case 'i':
           case 'I':
               printf("Vowel");
               break;
           case 'o':
           case '0':
              printf("Vowel");
               break;
           case 'u':
           case 'U':
               printf("Vowel");
               break;
           default:
               printf("Consonant");
      }
   }
```

```
5.
   int main()
     int mon;
     printf("Enter month number: ");
     scanf("%d", &mon);
     switch (mon)
         case 1:
             printf("31 days");
             break;
         case 2:
             printf("28 days");
             break;
         case 3:
             printf("31 days");
             break;
         case 4:
             printf("30 days");
             break;
         case 5:
             printf("31 days");
             break;
         case 6:
             printf("30 days");
             break;
         case 7:
             printf("31 days");
             break;
         case 8:
             printf("31 days");
             break;
         case 9:
             printf("31 days");
             break;
         case 10:
             printf("30 days");
             break;
         case 11:
             printf("30 days");
             break;
         case 12:
             printf("31 days");
```