## DD Samarasinha – 24912

## **Practical 3**

1.
 int main()
 int num1, num2, high;

 printf("Enter number 1 and 2: ");
 scanf("%d", &num1);
 scanf("%d", &num2);

 if (num1 > num2)
 high = num1;
 else
 high = num2;

 printf("Highest number is %d", high);

return 0;

}

```
2.
            int main()
    {
         float basicS, sales, allowance = 0, bonus = 0, gross = 0;
         char city;
         int years;
         printf("Enter basic salary: ");
         scanf("%f", &basicS);
         printf("Enter monthly sales: ");
         scanf("%f", &sales);
         printf("Enter city: ");
         scanf(" %c", &city);
         printf("Enter number of years in service: ");
         scanf("%d", &years);
         if (sales > 0 && sales < 25000)
             bonus = sales*0.1;
         else if (sales >= 25000 && sales < 50000)
             bonus = sales*0.12;
         else if (sales >= 50000)
             bonus = sales*0.15;
         if (years > 5)
             allowance += basicS * 0.1;
         switch (city)
             case 'C':
             case 'c':
                 allowance += 2500;
                 break;
             default:
                 allowance += 0;
         }
         gross = basicS + bonus + allowance;
         printf("Gross Monthly Salary: %.2f\n", gross);
```

```
3.
         int main()
          char empN[25];
          int basicS, newS;
          printf("Enter the employee name: ");
          scanf("%s", &empN);
          printf("Enter the basic salary: ");
          scanf("%d", &basicS);
          if (basicS < 5000 && basicS > 0)
              newS = basicS + (basicS * 0.05);
              printf("%s has a new salary of %d\n", empN, newS);
           else if (basicS >= 5000 && basicS < 10000)
              newS = basicS + (basicS * 0.10);
              printf("%s has a new salary of %d\n", empN, newS);
           else if (basicS >= 10000)
              newS = basicS + (basicS * 0.15);
              printf("%s has a new salary of %d\n", empN, newS);
           else
              printf("Error");
4.
          int main()
           const float pi = 3.14159;
           float r;
           printf("Enter radius: ");
           scanf("%f", &r);
           printf("Diameter: %.2f\n", 2*r);
           printf("Circumference: %.2f\n", 2*pi*r);
           printf("Area: %.2f\n", pi*(r*r));
      }
```

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5.
       int main()
           int num1, num2, mod;
           printf("Enter 2 numbers: ");
           scanf("%d %d", &num1, &num2);
           mod = num1%num2;
           if (mod==0)
               printf("%d is a multiple of %d\n", num1, num2);
           else
               printf("%d is not a multiple of %d\n", num1, num2);
       }
6.
                     int main()
             {
                printf("A: %d\n", 'A');
                printf("B: %d\n", 'B');
                printf("C: %d\n", 'C');
                printf("\n");
                printf("a: %d\n", 'a');
                printf("b: %d\n", 'b');
                printf("c: %d\n", 'c');
                printf("\n");
                printf("0: %d\n", '0');
                printf("1: %d\n", '1');
                printf("2: %d\n", '2');
                printf("\n");
                printf("$: %d\n", '$');
                printf("*: %d\n", '*');
                printf("+: %d\n", '+');
                printf("/: %d\n", '/');
                printf("blank: %d\n", ' ');
            }
```

```
7.
         int main()
          float basicS, sales, allowance = 0, bonus = 0, gross = 0;
           char city;
           int years;
           printf("Enter basic salary: ");
           scanf("%f", &basicS);
           printf("Enter monthly sales: ");
           scanf("%f", &sales);
           printf("Enter city: ");
           scanf(" %c", &city);
           printf("Enter number of years in service: ");
           scanf("%d", &years);
           if (sales > 0 && sales < 25000)
              bonus = sales*0.1;
           else if (sales >= 25000 && sales < 50000)
              bonus = sales*0.12;
           else if (sales >= 50000)
              bonus = sales*0.15;
           if (years > 5)
              allowance += basicS * 0.1;
           switch (city)
               case 'C':
               case 'c':
                   allowance += 2500;
                   break;
               default:
                   allowance += 0;
           }
           gross = basicS + bonus + allowance;
           printf("Gross Monthly Salary: %.2f\n", gross);
```