

```
#include <stdio.h>
void main()
```

```
int ballsInJarA, ballsInJarB;
int total;
printf("How many balls in jar A? ");
scanf("%d", &ballsInJarA);
printf("\nHow many balls in jar B? ");
scanf("%d", &ballsInJarB);
total = ballsInJarA + ballsInJarB;
printf("\nTotal Balls = %d ", total);
```

Activity 2.6:

```
#include <stdio.h>
void main()
```

```
float priceOfShirt, disInPercentage;
float discount, newPrice;
printf("Enter the price of the shirt: ");
scanf("%f", &priceOfShirt);
printf("Enter the discount percentage on the shirt: ");
scanf("%f", &disInPercentage);
discount = priceOfShirt * (disInPercentage/100);
newPrice = priceOfShirt - discount;
printf("\nOriginal Price of shirt: Rs.%f", priceOfShirt);
printf("\nDiscount on shirt: Rs.%f", discount);
printf("\nAfter applying the discount, price of shirt: Rs.%f", newPrice);
```

Activity 2.7:

```
#include <stdio.h>
```

```
void main()
```

```
{  
    int digit1, digit2, product;
```

```
    printf("Enter the first 2digit number: ");
```

```
    scanf("%d", &digit1);
```

```
    printf("Enter the second 2digit number: ");
```

```
    scanf("%d", &digit2);
```

```
    product = digit1 * digit2;
```

```
    printf("Product of both digits : %d ", product);  
}
```

Activity 2.8:

```
#include <stdio.h>
```

```
void main()
```

```
{  
    int sec, h, m, s;
```

```
    int remainingSec;
```

```
    printf("Input seconds: ");
```

```
    scanf("%d", &sec);
```

```
    h = (sec/3600);
```

```
    remainingSec = sec - (3600*h);  
}
```

```

    m = remainingSec/60;
    s = remainingSec - (m*60);
    printf("%d hour, %d minutes and %d seconds",h,m,s);
}

```

Activity 2.9:

Algebraic Expressions

$$x = 6y + z$$

$$x = yz^3 + 3y$$

$$z = x + \frac{y^2}{3x}$$

$$z = (x - 2)^2 + 3y$$

$$y = \left(y + \frac{3z}{2}\right) + z^3 + \frac{x}{z}$$

C Expressions

$$x = (6*y) + z$$

$$x = y*z*z*z + 3*y$$

$$z = x + ((y*y) / (3*x))$$

$$z = ((x-2)*(x-2)) + 3*y$$

$$y = (y + (3*z)/2) + z*z*z +$$

Activity 2.10:

$$x=3, y=7$$

Expressions

Boolean Result

$$(2+5)>y$$

0

$$(x+4)==y$$

1

$$x \neq (y-4)$$

0

$$(y/2) \geq x$$

1

$$-1 < x$$

1

$$(x^3) \leq 20$$

1

Activity 2.11:

$x=1, y=7, z=8$

Expressions

Boolean Result

$x == 2 \parallel y == 8$

false

$z > 5 \parallel x <= -3$

true

$x < y \parallel y < 5$

true

$x >= y \&\& z < 5$

false

$y < 7 \&\& !(true)$

false

$!(z > x)$

false

Activity 2.12:

$16 / (5+3)$

Result = $16 / (5+3)$

Result = $16 / 8$

Result = 2

$7 + 3 * (12+2)$

Result = $7 + 3 * 14$

Result = $7 + 42$

Result = 49

$25 \% 3 * 4$

Result = $25 \% 3 * 4$

Result = $1 * 4$

Result = 4

$34 - 9 * 2 / (3 * 3)$

Result = $34 - 9 * 2 / (3 * 3)$

Result = $34 - 9 * 2 / 9$

Result = $34 - 9 * 0.222$

Result = $34 - 2$

Result = 32

10th Computer

$$18 / (15 - 3 * 2)$$

$$\text{Result} = 18 / (15 - 6)$$

$$\text{Result} = 18 / 11$$

$$\text{Result} = 1.64$$