

Review Midterm

Exercise 1

Which one is the result of this print statement.

```
printf("%.3f",123.12345);
```

- 1) 123
- 2) 123.1
- 3) 123.12
- 4) 123.123
- 5) 123.1234

Exercise 2

Which one is the result of this print statement.

```
printf("%.3s", "123.12345");
```

- 1) 123
- 2) 123.1
- 3) 123.12
- 4) 123.123
- 5) 123.1234

Exercise 3

Which one is the result of this print statement.

```
printf("%d",3/7*5);
```

1) 0

2) 1

3) 2

4) 2.14

5) 2.142857

Exercise 4

Which one is the result of these statements.

```
float a=10/3;  
printf("%.2f",a);
```

- 1) 0.00
- 2) 3
- 3) 3.00
- 4) 3.33
- 5) 3.333333

Exercise 5

Which one can remove from the program statement when a and b are integers

- 1) if (a<b) printf (“result”);
- 2) if (a>b) printf (“result”);
- 3) if (a==b) printf (“equal”);
- 4) if (a>b || a<b) printf(“result”);
- 5) if (a>b && a<b) printf(“result”);

Exercise 6

Which one show the similar result with the program below when a and b are integers

```
if (a>b)printf("a");  
if (a<=b)printf("b");
```

- 1) if (a>=b) printf("a"); else printf ("b");
- 2) if (a<=b) printf("a"); else printf ("b");
- 3) if (a>b) printf("a"); else printf ("b");
- 4) if (a<b) printf("b"); else printf ("a");
- 5) if (a>=b) printf("a"); else if (a<b) printf ("b");

Exercise 7

Which one is the result of this program.

```
int i,sum=0;  
for (i=1;i<10;i+=2) sum+=i;  
printf("%d",sum);
```

1) 13

2) 19

3) 23

4) 25

5) 35

Exercise 8

Which one is the result of this program.

```
int i,j,sum=0;  
for (i=1;i<5;i++) for(j=1;j<5;j++) sum+=j;  
printf("%d",sum);
```

1) 10

2) 20

3) 30

4) 40

5) 50

Exercise 9

Which one is the program that calculates summation of even number from 1 to 500 and keep in variable sum.

- 1) for (i=1;i<=500;i++) sum=sum+i;
- 2) for (i=1;i<=500;i+=3) sum=sum+i;
- 3) for (i=1;i<=500;i++) if(i%2==1) sum=sum+i;
- 4) for (i=1;i<=500;i++) if(i%2==0) sum=sum+i;
- 5) for (i=1;i<=500;i++) if(i%3==1) sum=sum+i;

Exercise 10

Which one is the result of this program?

```
int i,j,sum=0;
for(i=1;i<5;i++)
    for(j=1;j<5;j++)
        if(j<i) sum+=j;
printf("%d",sum);
```

1) 8

2) 9

3) 10

4) 11

5) 12

(11)

Exercise 11

Which one is the result of the command below?

```
printf("Hello, /* comment */ World.\nABC");
```

- 1) Hello, World.
- 2) Hello, World.ABC
- 3) Hello, /* comment */ World.
/nABC
- 4) Hello, /* comment */ World.
ABC
- 5) All are not correct.

Exercise 12

Which one is show the different results?

- 1) `printf("%s\n","50000");`
- 2) `printf("%d\n",50000);`
- 3) `printf("%.1f\n",50000.0);`
- 4) `printf("%c%c%c%c%c\n",'5','0','0','0','0');`
- 5) `printf("%s%0.2s\n","500","00");`

Exercise 13

Which one is the result of the program below?

```
int x=22;  
printf("%d ",x++);  
printf("%d ",x+=2);  
printf("%d ",++x);  
printf("%d ",x+2);  
printf("%d ",x);
```

- 1) 23 25 26 28 26
- 2) 22 25 26 28 28
- 3) 22 25 26 28 26
- 4) 22 25 26 28 28
- 5) All are incorrect.

Exercise 14

Which one is the value in “ans” of the program below?

```
int ans, in = 9;
```

```
ans = (in/2)*(in+1);
```

1) 35

2) 40

3) 45

4) 50

5) 55

(15)

Exercise 15

What is the data that store in “last” variable when you type “ant bat cat dog” by keyboard?

```
char first[7], last[7];  
scanf("%s %s", first, last);
```

- 1) ant bat cat dog
- 2) cat dog
- 3) cat
- 4) bat
- 5) don't store any thing

Exercise 16

Which one of the program shows the similar result as the coding below? (if a and b are integers)

```
if(a>b) printf("a");
```

```
if(a<=b) printf("b");
```

1) if(a>=b) printf("a"); else printf("b");

2) if(a<=b) printf("a"); else printf("b");

3) if(a>b) printf("a"); else printf("b");

4) if(a<b) printf("b"); else printf("a");

5) if(a>=b) printf("a"); else if(a<b) printf("b");

Exercise 17

Define $x=0$, $y=0$ and $z=1$, Find the value of these x,y,z after running the code below.

```
if(y >= z && z==1)
```

```
if(z && y) y=1;
```

```
else x = 1;
```

1) $x = 1, y = 0, z = 1$

2) $x = 1, y = 1, z = 1$

3) $x = 10, y = 1, z = 1$

4) $x = 0, y = 0, z = 1$

5) $x = 1, y = 0, z = 2$

Exercise 18

How many loops of this program?

```
int x = 50, l = 0;  
while(x){  
  x = x-5;  
  i++;  
}
```

- 1) 5
- 2) 10
- 3) 15
- 4) 20
- 5) Infinite loop

Exercise 19

Which one of the following is not correct?

```
int count = 6;  
do{  
    printf("%d", count += 5*2/3-2);  
}while (count < 5);  
printf("%d",count+1);  
}
```

- 1) After running this code count = 8
- 2) Show 78 on to screen
- 3) This code use printf 2 times
- 4) This code run the loop only one time
- 5) After running this code the value in count doesn't change.

Exercise 20

Which one is the meaning of this symbol?



- 1) Terminal (Stop/Start)
- 2) Manual Input Symbol
- 3) Display Symbol
- 4) Action or Process Symbol
- 5) Decision Symbol
- 6) Connector Symbol

Exercise 21

Which one is the meaning of this symbol?



- 1) Terminal (Stop/Start)
- 2) Manual Input Symbol
- 3) Display Symbol
- 4) Action or Process Symbol
- 5) Decision Symbol
- 6) Connector Symbol

Exercise 22

Which one is the meaning of this symbol?



- 1) Terminal (Stop/Start)
- 2) Manual Input Symbol
- 3) Display Symbol
- 4) Action or Process Symbol
- 5) Decision Symbol
- 6) Connector Symbol

Exercise 23

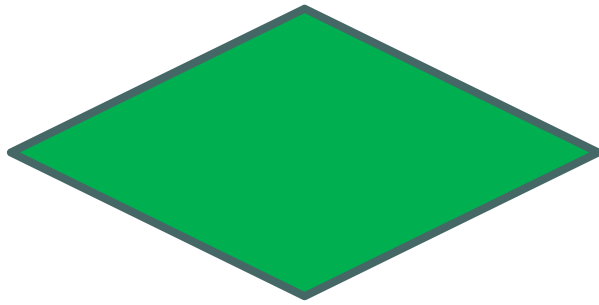
Which one is the meaning of this symbol?



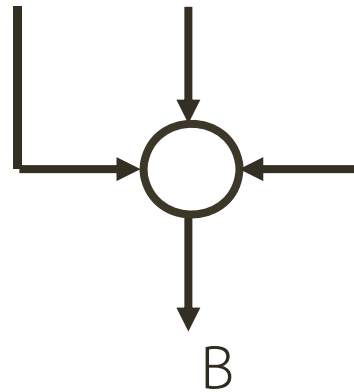
- 1) Terminal (Stop/Start)
- 2) Manual Input Symbol
- 3) Display Symbol
- 4) Action , initial value or Process Symbol
- 5) Decision Symbol
- 6) Connector Symbol

Exercise 24

Which one are the meaning of these symbol?



A



- 1) Terminal (Stop/Start)
- 2) Manual Input Symbol
- 3) Display Symbol
- 4) Action , initial value or Process Symbol
- 5) Decision Symbol
- 6) Connector Symbol

Exercise 25

How many loops of this program?

```
int x = 0, i,j,k;  
for(i=1;i<=10;i+=3)  
    for(j=1;j<=10;j+=2)  
        for(k=1;k<=10;k++)  
            x=x+1;
```

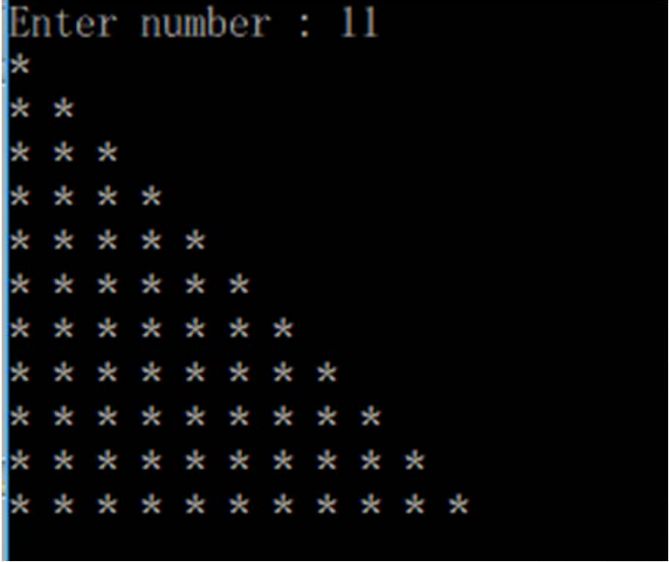
- 1) 50
- 2) 100
- 3) 150
- 4) 200
- 5) Infinite loop

Exercise 26 Find the result of this program?

```
#include <stdio.h>
int main()
{
    int i, j, rows;

    printf("Enter number of rows: ");
    scanf("%d",&rows);

    for(i=1; i<=rows; i++)
    {
        for(j=1; j<=i; j++)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```



```
Enter number : 11
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * * *
* * * * * * * *
* * * * * * * *
* * * * * * * *
```

Exercise 27 Find the result of this program?

```
#include<stdio.h>

int main()
{
    int j, sqr;
    printf("\tNumber\t\tSquare\n");
    printf("\t-----\t\t\t-----\n");
    for(j=1;j<=10;j++)
    {
        sqr=j*j;
        printf("\t%2d\t\t%3d\n",j,sqr);
    }
    return 0;
}
```

Number	Square
-----	-----
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

Exercise 28 What is the value at str[1][4]?

```
char str[2][10] = {"Engineer", "KMITL"};
```

Answer : L

Exercise 29 Calculate Binary to Decimal 1110011_2 : 115

Exercise 30 Calculate Decimal to Binary 45 : 00101101

Exercise 31 Calculate the result of A>>

a=7,b=5,c=3,d=6

$A = ++b + d - \% 2 * (++c * 4 - 1) / 2$

Answer = 6