```
#include <stdio.h>
int main()
    union values
                                                     #include <stdio.h>
    {
                                                     int main()
        unsigned char a;
                                                     {
        unsigned char b;
                                                         union test
        unsigned int c;
    };
                                                             int i;
                                                             int j;
    union values val;
                                                         };
    val.a=0;
    val.b=0;
                                                         union test var=10;
    val.c=1;
                                                         printf("%d,%d\n",var.i,var.j);
                                                     }
    printf("%d,%d,%d",val.a,val.b,val.c);
    return 0;
}
                                                          10.10
                                                           10,0
     0,0,1
                                                           0,10
      Error
                                                           Error
      1,1,1
                                              What will be the output of following program ?
      1,0,0
                                              #include <stdio.h>
                                              struct student
                                               int no;
                                               char name[10];
                                              }
                                              main()
                                                struct student s;
                                                s.no = 12;
                                                printf("hello");
                                                return s;
                                              }
                                                    Compile time error
                                                    Nothing
                                                    hello
                                                    exit value 12
```

		k to	access	the	member	of	the	ith	strı	icture	e in	the	array	of	struct	ures	is?
0	s.b.[i];																
0	s.[i].b;																
0	s.b[i];																
0	s[i].b;																
Wha	t is the cor	rect	syntax	x to	decla	are	bit.	-fie	ld i	n sti	ruct	ure	?				
0	struct temp	{	unsign	ed in	ta:1;	}s;											
0	struct temp	{	unsign	ed in	t a = 1;	}s;											
0	struct temp	{	unsign	ed flo	oat a : 1	; }s	;										
0	None of the r	menti	ioned														

```
What is output of c code?
  struct test
    unsigned int x[10] : 5;
  };
  int main()
  {
  printf("%d",x[10]);
        0
        Compile time error
       Undefined behavior
What will be output below the given code. Consider a 32bit compiler.
#include<stdio.h>
struct s2
        char *cp;
        union s1
        {
                unsigned a:31;
                char b[2];
                char *p;
        }o1;
}o2;
int main(void)
        printf("%d %d %d\n",sizeof(struct s2) , sizeof(o2) ,sizeof(o2.o1));
        return 0;
     24 24 16
     12 12 8
     16 16 8
     884
```

{

}

```
What will be the output?
#include <stdio.h>
union test
        unsigned int x: 3;
        unsigned int y: 3;
        int z;
};
int main(void)
{
        union test t;
        t.x = 5;
        t.y = 4;
        t.z = 18;
        printf("%4d %4d %4d\n", t.x, t.y, t.z);
        return 0;
}
      5 5 18
      2 2 18
      4 4 18
                                           What will be the Output?
                                            #include<stdio.h>
      5 4 18
                                            int main()
                                            {
                                                typedef struct
                                                {
                                                    int id;
                                                    float price;
                                                }DEMO;
                                                DEMO d[3]={11,56.00,22,45.00,33,78.00};
                                                fun(d+1);
                                            }
                                            void fun(DEMO *d)
                                                printf("%d %.2f",d->id,d->price)
                                            }
                                                 22 45.00
                                                 11 56.00
                                                 Compile Time Error
                                                 printf should be replaced with d[0].id,d[0].price
```

```
#include<stdio.h>
struct employee
{
    char name[20];
    int emp_id;
    double salary;
};
int main()
{
    struct employee emp = {"Abc"};
}
which of the following scanf statements is incorrect for the above code :

    scanf("%s%d%lf",emp.name,&emp.emp_id,&emp.salary);

    scanf("%s%d%lf",&emp.name,&emp.emp_id,&emp.salary);

    scanf("%s%d%lf",&emp.name,emp.emp_id,emp.salary);

    scanf("%s%d%lf",emp.name,emp.emp_id,emp.salary);
```

```
1. #include <stdio.h>
int main()
                                                       2. #include <stdio.h>
                                                       int main()
   union values
                                                           union test
       unsigned char a;
       unsigned char b;
                                                               int i;
       unsigned int c;
                                                               int j;
   };
                                                           };
   union values val;
                                                           union test var=10;
                                                           printf("%d,%d\n",var.i,var.j);
   val.a=0;
   val.b=0;
                                                       }
   val.c=1;
                                                       Answers
   printf("%d,%d,%d",val.a,val.b,val.c);
                                                       1. 10,10
   return 0;
                                                       2. 10,0
                                                       3. 0,10
Answers
1. 0,0,1
                                                       4. Error
2. Error
3. 1,1,1
4. 1,0,0
                                                       3. What will be the output of following program ?
                                                       #include <stdio.h>
                                                       struct student
                                                       int no;
                                                       char name[10];
                                                       }
                                                       main()
                                                        struct student s;
                                                        s.no = 12;
                                                        printf("hello");
                                                         return s;
                                                       }
                                                       Answers
                                                       1. Compile time error
                                                       2. Nothing
```

3. hello

4. exit value 12

```
4. The correct syntax to access the member of the ith structure in the array Of structures is?
  struct temp
  {
  int b;
  }s[50];
  Answers
  1. s.b.[i];
                                                                   };
  2. s.[i].b;
 s.b[i];
 4. s[i].b;
5. What is the correct syntax to declare bit-field in structure?
                                                                   1.0
Answers
1. struct temp
  -{
                                                                   3. Undefined behavior
      unsigned int a : 1;
                                                                   4.5
   }s;
2. struct temp
      unsigned int a = 1;
   }s;
3. struct temp
       unsigned float a : 1;
   }s;
4. None of the mentioned
```

```
6. What is output of c code?
struct test
unsigned int x[10] : 5;
int main()
printf("%d",x[10]);
Answers
2. Compile time error
```

```
7. What will be output below the given code. Consider a 32bit compiler.
#include<stdio.h>
struct s2
{
       char *cp;
        union s1
               unsigned a:31;
               char b[2];
               char *p;
       }01;
}02;
int main(void)
{
        printf("%d %d %d\n",sizeof(struct s2) , sizeof(o2) ,sizeof(o2.o1));
       return 0;
                                                         8. What will be the output?
}
                                                         #include <stdio.h>
                                                         union test
Answers
                                                         {
1. 24 24 16
                                                                 unsigned int x: 3;
                                                                 unsigned int y: 3;
2. 12 12 8
                                                                 int z;
3. 16 16 8
                                                         };
                                                         int main(void)
4.884
                                                         {
                                                                 union test t;
                                                                t.x = 5;
                                                                 t.y = 4;
                                                                 t.z = 18;
                                                                 printf("%4d %4d %4d\n", t.x, t.y, t.z);
                                                                 return 0;
                                                         }
                                                         Answers
                                                         1. 5 5 18
                                                         2. 2 2 18
                                                         3.4 4 18
                                                         4. 5 4 18
```

```
#include<stdio.h>
int main()
   typedef struct
        int id;
        float price;
   DEMO d[3]={11,56.00,22,45.00,33,78.00};
    fun(d+1);
void fun(DEMO *d)
    printf("%d %.2f",d->id,d->price)
Answers
1. 22 45.00
2. 11 56.00
3. Compile Time Error
4. printf should be replaced with d[0].id,d[0].price
10. #include<stdio.h>
struct employee
{
    char name[20];
    int emp_id;
    double salary;
};
int main()
    struct employee emp = {"Abc"};
}
which of the following scanf statements is incorrect for the above code :
Answers

    scanf("%s%d%lf",emp.name,&emp.emp_id,&emp.salary);

    scanf("%s%d%lf",&emp.name,&emp.emp_id,&emp.salary);

scanf("%d%lf",&emp.emp_id,&emp.salary);
4. scanf("%s%d%lf",emp.name,emp.emp_id,emp.salary);
```

9. What will be the Output?