CHAP 2

main()

CONTROL INSTRUCTIONS.

```
1. what would be the o/p of the following program
  main()
    int i=4;
   switch(i)
    default
     printf("\n a mouse");
    case 1:
      printf("\n a rabbit");
      break;
    case 2:
     printf("\n a tiger');
     break;
    case 3:
      printf("\n a lion");
   }
}
ans>a mouse
  a rabbit
2. point out error in for loop if any-
main()
    int i=0;
   for(;;)
     printf("\n %d",i++);
     if(i>10)
     break;
a.the condition in the for loop is must.
b.the two semicolons should be dropped
c.the for loop should replaced by a while loop
d.no error.
Ans:d
3. point error if any in the while loop
```

```
int i=1;
  while()
     printf("\n %d", i++);
     if(i>10)
       break;
a.the condition in the while is must.
b.there should be at least one semicolon in the while()
c.the while loop must be replaced by a for loop.
d.no error.
Ans:a
4.point out error if any
main()
 int x=1;
 while(x <= 5)
   printf("%d",x);
   if(x>2)
    goto here;
fun()
 here:
   printf("\n Nilesh");
ans:goto can not take control to different function.
5.point error if any
main()
  x=4,y=2;
  switch(x)
     case 1:
       printf("\n To error is human");
       break;
    case y:
       printf("\n don't do it here');
```

```
break;
    }
}
ans:constant expression required in second case we cant use y.
6.point error if any
main()
   int x=1;
   switch(x)
     case 1:
      printf("\n Hellow");
      break;
     case 1*2+4:
      printf("\n the rock");
      break;
}
ans:no error constand expression like 1*2+4 are acceptable in cases of switch.
7.point out error if any
main()
 int a=1;
 switch(a)
 printf("\n Programmers don't die. They just lost in the procressing");
ans: no error but switch with no case is not required.
8.point out error if any.
Main()
 int x=1;
  switch(x)
     printf("Hellow");
     case 1:
      printf("\n Nilesh");
      break;
    case 2;
```

```
printf("\n Vivek');
     break;
    }
}
```

irrespective of the value of x. In other words all the statements in the switch have

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ans: though there is no error, the first printf statement can never be executed
to belong to some case or other.
9.Rewrite the following set of statements using conditional operator.
  Int a=1,b;
  If(a>10)
    B=20;
Ans: int a,b,dummy;
a>10?b=20:dummy=1;
note that the following would not work
a>10?b=20:;
10.point out error if any.
Main()
{
  int a=10,b;
a > = 5?b = 100:b = 200;
printf("%d",b);
ans: Ivalue required in function main(). The second assignment should be written
in the paranthesis as follows
a>=5?b=100@b=200);
11. O/p?
main()
 char str[]="part-time musicians are semiconductors";
 int a=5;
printf(a>10?"%50s":"%s",str);
}
a. part-time musicians are semiconductors
b. part-time musicians are semiconductors
c. error
d. none of above
ans: a
```

12. What is more efficient a switch statement or an if-else chain?

Ans: There is hardly any difference in efficiency in both cases. But one should use switch where it can be because it is a cleaner way to program.

13.Can we us switch statement to switch between strings.

Ans:No. cases in switch must be either integer constants or constant expressions.

14. We want to test whether the value lies between 2 to 4 or 5 to 7. can we do this using switch.?

```
Ans:Yes. But the way is not practical if the ranges are bigger. It is as shown bellow:-
switch(a)
{
    case 2:
    case 3:
    case 4:
        /* some statements */
        break;
    case 5:
    case 6:
    case 7:
        /* some statements */
        break;
```

15. The way break is used to take control out of switch can continue be used to take the control to the beginning of the switch.

Ans:No. continue can work only with loops and not with switch.